

Supplementary File 3 – Gene lists for PAHs in forestomach, liver, and lung tissues.

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3.1 – FORESTOMACH

3.1.1 BaA Forestomach. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 20, 40, and 80 mg/kg-bw/day benz(a)anthracene in the forestomach. The list is sorted from highest to lowest fold change in the 80 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	20 mg/kg-bw/day		40 mg/kg-bw/day		80 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_51_P113906	NM_025467	Gkn2	0.00	16.3	0.48	6.2	0.47	5.2
A_51_P216679	NM_011922	Anxa10	0.00	33.2	0.76	5.7	0.82	3.3
A_55_P2011097	NM_029727	Gsdma2	0.00	8.9	0.69	3.5	0.67	2.8
A_51_P333923	NM_133681	Tspan1	0.00	19.7	0.82	3.8	0.84	2.7
A_55_P2112005	NM_009362	Tff1	0.00	4.7	0.44	2.8	0.45	2.6
A_55_P2140042	NM_010659	Krt31	0.96	1.0	0.97	1.0	0.00	2.6
A_66_P133397	NM_145126	Chi3l4	0.00	17.0	0.75	4.1	0.84	2.4
A_55_P2025687	NM_080457	Muc4	0.00	6.8	0.80	2.5	0.81	2.0
A_66_P115236	AK007416	1810010D01Rik	0.00	11.7	0.87	2.6	0.89	1.9
A_55_P2157872	NM_001079695	Sfrs5	0.29	1.3	0.00	1.7	0.00	1.9
A_55_P2114187	XM_884904	LOC620515	0.00	20.9	0.88	2.9	0.91	1.8
A_51_P169476	NM_008570	Mcpt1	0.00	5.4	0.76	2.3	0.84	1.7
A_55_P2140195	XM_900959	Gm15517	0.88	-1.1	0.91	-1.1	0.00	1.7
A_55_P2215640	AK007112	1700102J08Rik	1.00	1.0	0.91	-1.1	0.00	1.6
A_55_P2116833	NM_029886	9430038I01Rik	0.27	1.3	0.00	1.5	0.00	1.5
A_30_P01028944			0.14	1.3	0.00	1.5	0.04	1.4
A_30_P01017548			0.51	1.2	0.00	1.5	0.06	1.4
A_55_P2111399	NM_001129803	Pcp2	0.86	1.1	0.00	1.8	0.60	1.1
A_30_P01021428			0.91	-1.1	0.00	-4.2	0.90	1.1
A_55_P2108903	AK038731		0.00	-1.4	0.20	-1.4	0.04	-1.5
A_30_P01026599			0.00	-1.4	0.15	-1.4	0.00	-1.5
A_55_P2015734	NM_028769	Syn1	0.89	-1.1	0.17	-1.5	0.00	-1.5
A_30_P01024138			0.89	-1.1	0.88	-1.1	0.00	-1.5
A_51_P441970	NM_175162	Stox2	0.62	-1.2	0.61	-1.2	0.00	-1.5
A_66_P100937	XM_001487796	Zfp33b	0.78	-1.2	0.15	-1.5	0.00	-1.7
A_55_P2286493	AK016664	4933405E24Rik	0.76	-1.2	0.80	-1.2	0.00	-1.9
A_52_P12877	NM_031165	Hspa8	0.61	-1.3	0.22	-1.6	0.00	-1.9
A_55_P1968304			0.42	-1.4	0.07	-1.7	0.00	-1.9
A_52_P671812	XM_918536	LOC641192	0.19	-1.4	0.00	-1.7	0.00	-1.9
A_55_P2080603	NM_031165	Hspa8	0.60	-1.3	0.07	-1.6	0.00	-1.9
A_55_P2069721	NM_031165	Hspa8	0.60	-1.3	0.12	-1.6	0.00	-1.9
A_55_P2035320	NM_017373	Nfil3	0.76	-1.3	0.25	-1.7	0.04	-2.1
A_55_P2176963	NM_013559	Hsph1	0.59	-1.6	0.31	-1.9	0.04	-2.3
A_55_P2135967	XM_979793	Gm7816	0.76	-1.4	0.32	-1.8	0.00	-2.3
A_55_P1993404			0.67	-1.4	0.17	-1.9	0.00	-2.4
A_55_P2068459	NM_010479	Hspa1a	0.31	-1.8	0.00	-2.6	0.00	-2.4
A_55_P2003513	NM_013559	Hsph1	0.48	-1.6	0.30	-1.9	0.00	-2.5
A_55_P2087984	NM_001164671	Dnaja1	0.64	-1.5	0.15	-2.0	0.00	-2.6

3.1.2 BbF Forestomach. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 25, 50, and 100 mg/kg-bw/day benzo(b)fluoranthene in the forestomach. The list is sorted from highest to lowest fold change in the 100 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	25 mg/kg-bw/day		50 mg/kg-bw/day		100 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_55_P2032079	NM_016974	Dbp	0.22	2.3	0.00	3.3	0.00	6.6
A_55_P2032081	NM_016974	Dbp	0.33	2.1	0.00	3.1	0.00	5.8
A_51_P464703	NM_021443	Ccl8	0.84	2.3	0.39	3.2	0.02	5.3
A_55_P2035018	NM_020001	Clec4n	0.18	1.9	0.32	1.7	0.00	2.6
A_51_P284608	NM_001042605	Cd74	0.39	2.0	0.41	1.9	0.02	2.4
A_52_P51078	NM_007801	Ctsh	0.31	1.7	0.09	2.0	0.00	2.4
A_52_P303891	NM_011584	Nr1d2	0.15	1.6	0.15	1.7	0.00	2.4
A_55_P1954393	NM_144796	Susd4	0.29	1.7	0.06	2.0	0.00	2.4
A_55_P2015994	NM_013518	Fgf9	0.06	1.8	0.00	1.9	0.00	2.3
A_52_P462472	NM_001077354	C77370	0.78	1.5	0.26	1.8	0.01	2.2
A_51_P461779	NM_172994	Ppp2r2c	0.34	1.5	0.21	1.6	0.00	2.2
A_55_P1958165	NM_001025610	Ms4a7	0.55	1.6	0.40	1.6	0.02	2.1
A_55_P2148534	BC096461	Nr1d2	0.60	1.5	0.49	1.5	0.02	2.1
A_55_P2024888	NM_021281	Ctss	0.70	1.5	0.43	1.6	0.04	2.0
A_51_P278868	NM_010387	H2-DMb1	0.21	1.8	0.21	1.8	0.02	2.0
A_51_P223776	NM_145434	Nr1d1	0.75	1.5	0.43	1.6	0.02	2.0
A_55_P2181738	NM_013590	Lyz1	0.29	1.9	0.39	1.7	0.04	1.9
A_30_P01032527			0.00	-2.0	0.90	1.1	0.89	-1.1
A_30_P01025874			0.00	-2.1	0.86	1.2	0.86	-1.1
A_55_P1993858	NR_001460	Rmrp	0.00	-1.5	0.90	-1.1	0.38	-1.2
A_30_P01031385			0.00	-2.1	0.99	-1.0	0.58	-1.4
A_55_P1988384	NM_007515	Slc7a3	0.00	-1.5	0.38	-1.3	0.02	-1.4
A_55_P2010912	NM_010589	Jak3	0.39	-1.5	0.58	-1.3	0.04	-1.6
A_30_P01023209			0.46	-1.5	0.35	-1.5	0.03	-1.7
A_51_P110471	NM_026993	Ddah1	0.30	-1.6	0.43	-1.5	0.01	-1.9
A_51_P422194	NM_153390	Pxt1	0.36	-1.8	0.28	-1.9	0.04	-2.0
A_51_P338443	NM_020581	Angptl4	0.76	-1.6	0.47	-1.7	0.03	-2.3
A_52_P493620	NM_026218	Fgfr1op2	0.30	-1.7	0.00	-2.1	0.00	-2.3
A_55_P1978895	NM_177578	Skint3	0.09	-12.0	0.00	-21.2	0.02	-9.1

3.1.3 BghiP Forestomach. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 6.25, 12.5, and 25 mg/kg-bw/day benzo(ghi)perylene in the forestomach. The list is sorted from highest to lowest fold change in the 25 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	6.25 mg/kg-bw/day		12.5 mg/kg-bw/day		25 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change

A_55_P2114187	XM_884904	LOC620515	0.88	3.5	0.12	24.0	0.02	43.9
A_55_P2101290	NM_011646	Try4	1.00	1.1	0.32	7.3	0.04	23.2
A_55_P2095513	NM_001003405	Try5	0.97	1.5	0.31	6.2	0.02	21.8
A_55_P2042860	NM_001003664	Gm5409	0.97	1.3	0.28	4.7	0.02	12.3
A_55_P2013555	NM_053243	Prss1	0.96	1.4	0.37	3.6	0.00	11.0
A_55_P1983528	NM_025458	Tmed6	0.97	1.4	0.43	3.7	0.04	10.9
A_51_P136781	NM_018874	Pnliprp1	0.97	1.3	0.37	3.5	0.02	10.0
A_55_P2006499	NM_011935	Esrrg	0.97	1.2	0.37	3.1	0.04	8.2
A_51_P220806	NM_008110	Gdf9	0.96	1.4	0.31	3.2	0.04	7.6
A_51_P307741	NM_009827	Cckar	0.97	1.3	0.46	2.8	0.04	7.5
A_52_P340669	NM_010800	Bhlha15	0.99	1.1	0.39	3.0	0.02	7.3
A_51_P418901	NM_009430	Prss2	0.99	1.1	0.48	2.7	0.04	6.6
A_51_P185939	NM_029771	Gper	0.98	1.2	0.53	2.3	0.02	6.2
A_52_P557293	NM_015775	Tmprss2	0.96	1.3	0.55	2.3	0.04	6.0
A_55_P2003216	NM_028078	Igsf5	0.96	1.4	0.37	2.7	0.02	5.7
A_55_P2050354	NM_001024705	Prmp5	0.97	1.2	0.27	3.0	0.00	5.4
A_30_P01021703			0.96	1.3	0.28	3.0	0.04	5.1
A_55_P2097964	XM_001481064	9030622O22Rik	0.98	1.2	0.50	2.2	0.02	5.0
A_65_P19089	NM_011935	Esrrg	1.00	1.1	0.57	2.2	0.04	5.0
A_55_P2131642	NM_178240	Trim50	0.99	1.1	0.71	1.8	0.04	4.9
A_55_P2002933	NM_008456	Klk1b5	0.94	1.5	0.57	2.0	0.04	4.8
A_30_P01024672			0.99	1.1	0.37	2.7	0.04	4.7
A_55_P2054261	NM_001081314	C2cd4b	0.99	1.1	0.68	1.8	0.04	4.7
A_55_P2019890	NM_001017427	Rasef	0.96	1.3	0.67	1.8	0.04	4.5
A_55_P1999953	NM_207683	Pik3c2g	0.96	1.3	0.48	2.2	0.04	4.4
A_55_P2097962	XM_001481064	9030622O22Rik	1.00	1.1	0.58	2.0	0.02	4.3
A_55_P2108708	NM_020574	Kcne3	0.95	1.4	0.72	1.6	0.04	4.2
A_52_P517762	NM_023557	Slc44a4	0.97	1.2	0.57	2.0	0.04	4.2
A_55_P1985544	NM_029911	Kcnk10	0.99	1.1	0.62	1.9	0.04	4.1
A_55_P2236268	NM_172804	Syt16	0.97	1.2	0.63	1.9	0.04	4.1
A_55_P2031939	NM_009700	Aqp4	0.96	1.3	0.50	1.8	0.00	3.8
A_55_P2394490	AK052609	D630004K10Rik	0.99	1.1	0.35	2.2	0.04	3.8
A_52_P564413	NM_207683	Pik3c2g	0.99	1.1	0.53	1.9	0.04	3.8
A_51_P314669	NM_011128	Pnliprp2	0.97	1.2	0.70	1.6	0.04	3.8
A_52_P662711	NM_027211	Anxa13	0.96	1.2	0.76	1.5	0.04	3.7
A_55_P2080021	NM_011864	Papss2	0.97	1.2	0.32	2.3	0.04	3.7
A_55_P1973588	NM_177084	Slc9a4	0.96	1.3	0.67	1.7	0.04	3.7
A_30_P01025658			0.96	-1.2	0.55	1.9	0.04	3.6
A_55_P2176565	NM_001122993	B3galt5	1.00	1.0	0.80	1.4	0.04	3.6
A_51_P480073	NM_007689	Chad	0.96	1.3	0.57	1.8	0.04	3.6
A_52_P625315	NR_003617	1700018B24Rik	0.96	1.2	0.68	1.7	0.04	3.5
A_30_P01023405			0.98	1.1	0.63	1.6	0.00	3.3
A_55_P2085150	XM_001480594	Gm4461	0.95	1.4	0.27	2.3	0.04	3.3
A_51_P115738	NM_053248	Slc5a5	0.97	1.1	0.53	1.8	0.04	3.3
A_55_P1953919	NM_181407	Me3	0.96	1.2	0.42	1.8	0.02	3.2
A_55_P2042923	NM_013731	Sgk2	0.96	1.3	0.20	2.4	0.02	3.2
A_30_P01030522			0.96	1.2	0.73	1.4	0.04	3.1
A_52_P308669	NM_030703	Cpn1	0.98	1.1	0.41	1.9	0.04	3.1
A_55_P2064701			0.97	1.2	0.66	1.5	0.04	2.9

A_55_P2070185			0.97	1.1	0.67	1.5	0.02	2.9
A_51_P245414	NM_010639	Klk1	0.94	1.3	0.63	1.5	0.00	2.9
A_55_P1953920	NM_181407	Me3	0.97	1.1	0.38	1.8	0.00	2.9
A_51_P393305	NM_198034	Sidt1	0.99	1.0	0.58	1.6	0.00	2.9
A_55_P2071266	BC057333		0.96	1.2	0.31	2.0	0.04	2.8
A_30_P01033545			0.96	1.2	0.47	1.6	0.02	2.8
A_51_P104392	NM_133982	Rpp25	0.96	1.1	0.82	1.2	0.00	2.8
A_30_P01032867			0.95	1.3	0.47	1.7	0.02	2.7
A_55_P2151388	NM_025312	Sostdc1	0.92	1.4	0.25	2.0	0.04	2.7
A_55_P1953783			0.98	-1.1	0.71	1.4	0.02	2.6
A_55_P2147896	NM_001163143	C2cd4a	1.00	-1.0	0.84	1.3	0.02	2.6
A_30_P01027140			1.00	1.0	0.50	1.6	0.02	2.5
A_55_P2147897	NM_001163143	C2cd4a	0.97	1.1	0.73	1.3	0.04	2.5
A_51_P155755	NM_183139	Pld6	0.96	1.2	0.42	1.6	0.04	2.5
A_30_P01026399			0.96	1.2	0.70	1.4	0.04	2.4
A_51_P308048	NM_027294	Cmtm8	0.99	1.1	0.58	1.5	0.04	2.4
A_55_P2020338	NM_172938	Scml4	0.96	1.2	0.54	1.6	0.04	2.4
A_55_P2072666	BC059104		1.00	1.0	0.70	1.3	0.04	2.3
A_51_P435068	NM_025826	Acadsb	0.95	1.2	0.39	1.6	0.04	2.3
A_51_P249313	NM_028705	Herc3	0.91	1.3	0.22	1.7	0.02	2.3
A_55_P2010622	NM_033354	Sec16b	1.00	1.0	0.70	1.3	0.04	2.2
A_51_P404193	NM_022435	Sp5	0.99	1.0	0.71	1.3	0.04	2.2
A_51_P471791	NM_145838	St8sia6	0.92	1.3	0.53	1.4	0.04	2.2
A_51_P456208	NM_011575	Tff3	0.97	1.1	0.65	1.4	0.04	2.2
A_55_P2005549	NM_177839	Tnn	0.96	1.1	0.23	1.8	0.04	2.2
A_51_P211998	NM_028943	Sgms2	0.98	1.1	0.68	1.3	0.04	2.1
A_55_P2060922	NM_153131	Unc5a	0.96	1.1	0.00	2.1	0.00	2.1
A_55_P2096602			0.98	1.1	0.48	1.5	0.04	2.0
A_51_P341336	NM_025778	Bcl2l14	0.98	1.1	0.71	1.3	0.04	2.0
A_52_P238846	NM_011794	Bpnt1	0.96	1.1	0.52	1.3	0.02	2.0
A_51_P193336	NM_016773	Nucb2	0.81	1.4	0.19	1.7	0.04	2.0
A_51_P229613	NM_008792	Pcsk2	0.95	1.2	0.36	1.4	0.00	2.0
A_55_P2127357			0.95	1.2	0.40	1.5	0.04	1.9
A_30_P01025051			0.75	1.3	0.04	1.9	0.00	1.9
A_55_P1971991	NM_001083916	1810019J16Rik	0.66	1.4	0.19	1.6	0.00	1.9
A_55_P2101231	NM_001127338	Aldh7a1	0.96	-1.1	0.48	1.4	0.04	1.9
A_51_P188126	NM_145523	Gca	0.97	1.1	0.52	1.3	0.02	1.9
A_55_P2064862	NM_010492	Ica1	0.97	1.1	0.78	1.2	0.04	1.9
A_52_P523445	NM_028069	Mupcdh	1.00	-1.0	0.72	1.2	0.04	1.9
A_51_P279038	NM_008904	Ppargc1a	0.97	1.1	0.67	1.3	0.04	1.9
A_51_P268559	NM_029573	Idh3a	0.88	1.2	0.18	1.4	0.00	1.8
A_55_P2135153	NM_153558	Lcn13	0.97	1.1	0.70	1.3	0.04	1.8
A_30_P01028353			0.30	1.6	0.14	1.6	0.04	1.7
A_30_P01025230			0.74	1.4	0.30	1.5	0.04	1.7
A_51_P466148	NM_007533	Bckdha	1.00	1.0	0.45	1.4	0.04	1.7
A_55_P1997651	NM_207687	Espn	0.74	1.3	0.00	1.8	0.02	1.7
A_55_P2048259	NM_146133	Golph3l	0.96	1.1	0.35	1.4	0.04	1.7
A_51_P403564	NM_008499	Lhx5	0.99	1.0	0.85	1.1	0.04	1.7
A_55_P2054362	XM_001472585	LOC100048875	0.90	1.2	0.00	1.8	0.07	1.7

A_55_P2183854	NM_001012322	Sctr	0.94	1.2	0.33	1.4	0.02	1.7
A_55_P2157627			0.97	1.1	0.16	1.5	0.04	1.6
A_55_P1983368	NM_001162533	1700029G01Rik	0.95	1.1	0.45	1.3	0.04	1.6
A_55_P2026982	NM_173744	2610019F03Rik	0.72	1.3	0.22	1.5	0.04	1.6
A_52_P542794	NM_001002004	2610507B11Rik	0.97	1.1	0.26	1.4	0.02	1.6
A_55_P1959833	NM_172923	Al118078	0.96	1.1	0.81	1.1	0.04	1.6
A_55_P1952385	NM_033571	Fkbp6	1.00	1.0	0.85	1.1	0.04	1.6
A_55_P2067342	XM_001478579	Gm9782	0.96	1.1	0.33	1.4	0.04	1.6
A_55_P2081630	NM_021610	Gpa33	0.91	1.2	0.33	1.3	0.04	1.6
A_51_P465232	NM_139295	Mcfd2	0.75	1.2	0.14	1.3	0.00	1.6
A_66_P108770	NM_024188	Oxct1	0.97	1.1	0.43	1.3	0.04	1.6
A_55_P1985337	NM_031395	Sytl3	0.91	1.2	0.58	1.2	0.04	1.6
A_51_P284244	NM_025360	Tmed3	0.98	1.0	0.76	1.2	0.04	1.6
A_55_P2103115	NM_172843	Tor1aip2	0.89	1.2	0.18	1.4	0.00	1.6
A_55_P2175145	AK154426		1.00	1.0	0.89	1.1	0.04	1.5
A_30_P01028140			0.99	1.0	0.94	-1.0	0.00	1.5
A_55_P2062538	XM_984645	1700027A15Rik	0.67	1.2	0.16	1.3	0.00	1.5
A_55_P2045876	XM_001477165	2900008C10Rik	0.96	1.1	0.85	1.1	0.04	1.5
A_51_P517787	NM_146047	Clptm1l	0.90	1.1	0.38	1.2	0.00	1.5
A_52_P508317	NM_025745	Erlec1	0.58	1.3	0.23	1.4	0.04	1.5
A_55_P2026340	NM_001161765	Fmo5	0.91	1.2	0.56	1.2	0.04	1.5
A_52_P763938	XM_001478475	LOC100047597	1.00	1.0	0.67	1.2	0.04	1.5
A_55_P1962736	NM_019787	Sec23b	0.95	-1.1	0.51	1.2	0.04	1.5
A_55_P2020203	NM_018780	Sfrp5	0.79	1.2	0.04	1.5	0.04	1.5
A_51_P419971	NM_027992	Tmem106b	0.83	1.2	0.18	1.3	0.02	1.5
A_55_P1963483	NM_030559	Vps16	1.00	1.0	0.00	-5.5	0.81	1.3
A_55_P2087984	NM_001164671	Dnaja1	0.00	-1.7	0.54	-1.3	0.98	-1.0
A_55_P1999287	XM_355880	Ovol3	0.53	-1.3	0.04	-1.5	0.40	-1.2
A_55_P2004370	NM_009802	Car6	0.20	-1.3	0.00	-1.5	0.02	-1.3
A_55_P2417569	NM_009116	Prrx2	0.30	-1.4	0.04	-1.5	0.13	-1.3
A_55_P2063283	XM_001001076		0.00	-1.5	0.00	-1.4	0.02	-1.4
A_51_P416509	NM_030609	Hist1h1a	0.50	-1.3	0.00	-1.7	0.09	-1.4
A_51_P284577	NM_010489	Hyal2	0.88	-1.2	0.00	-1.5	0.09	-1.4
A_55_P2000454	XM_001478824	Tspan18	0.96	-1.1	0.00	-1.5	0.06	-1.4
A_55_P1972948	NM_176954	Brunol5	0.96	-1.1	0.65	-1.2	0.00	-1.5
A_55_P2131766	NM_023665	D4Wsu53e	0.00	-2.4	0.14	-1.9	0.29	-1.5
A_55_P2057537	NM_001109657	Gas7	1.00	-1.0	0.30	-1.2	0.00	-1.5
A_51_P286488	NM_133662	Ier3	0.96	-1.1	0.31	-1.3	0.04	-1.5
A_55_P2117033	NM_028860	Mtmr3	0.98	1.0	0.49	-1.2	0.04	-1.5
A_51_P355943	NM_138656	Mvd	0.96	1.1	0.81	-1.1	0.04	-1.5
A_55_P2074796	NM_007671	Cdkn2c	0.96	-1.1	0.27	-1.4	0.04	-1.6
A_52_P432580	XM_001473421	LOC100044968	0.60	-1.2	0.00	-1.6	0.00	-1.6
A_51_P441974	NM_008847	Pip5k1a	0.96	1.1	0.64	-1.2	0.02	-1.6
A_55_P1952877	NM_027246	Snrpf	1.00	-1.0	0.27	-1.4	0.04	-1.6
A_30_P01029299			0.99	1.0	0.66	-1.3	0.04	-1.7
A_51_P381260	NM_008761	Fxyd5	0.64	-1.3	0.18	-1.4	0.04	-1.7
A_51_P127681	NM_013885	Clic4	0.00	-2.0	0.19	-1.6	0.04	-1.8
A_51_P246854	NM_009606	Acta1	0.96	-1.1	0.91	-1.1	0.04	-1.9
A_52_P90363	NM_029803	Ifi27l2a	0.81	-1.6	0.21	-2.1	0.02	-2.8

A_51_P431329	NM_007606	Car3	0.37	-3.7	0.31	-2.9	0.00	-6.2
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3.1.4 BkF Forestomach. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 25, 50, and 100 mg/kg-bw/day benzo(k)fluoranthene in the forestomach. The list is sorted from highest to lowest fold change in the 100 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	25 mg/kg-bw/day		50 mg/kg-bw/day		100 mg/kg-bw/day	
			<i>FDR P value</i>	<i>Fold change</i>	<i>FDR P value</i>	<i>Fold change</i>	<i>FDR P value</i>	<i>Fold change</i>
A_55_P2124461	XM_001472850	Gm2251	1.00	-1.4	0.08	2.6	0.03	2.3
A_55_P2046877	NM_008239	Foxq1	1.00	1.1	0.04	5.5	0.43	2.2
A_55_P1977628	NM_021362	Pappa	0.00	2.4	0.92	1.2	0.06	2.0
A_51_P234692	NR_003513	Neat1	1.00	1.3	0.93	1.2	0.03	2.0
A_52_P222230	XM_001476722		1.00	-1.8	0.03	5.4	0.51	2.0
A_55_P2090505	XM_001480011	Gm4382	1.00	-1.3	0.03	2.1	0.06	1.8
A_55_P2293351	AK082896	C430010C01	0.84	1.6	0.98	1.1	0.03	1.7
A_51_P378789	NM_018866	Cxcl13	1.00	1.2	0.82	1.2	0.03	1.7
A_30_P01018771			0.95	1.4	0.99	1.0	0.04	1.6
A_51_P184300	NM_010087	Dtna	0.87	1.4	0.71	1.2	0.03	1.6
A_51_P423880	NM_025891	Smarcd3	1.00	-1.1	0.47	1.3	0.04	1.6
A_55_P2097913	NM_001081053	Itga10	0.67	1.5	0.49	1.3	0.03	1.5
A_55_P2040815	NM_153545	Lrrc45	0.97	1.4	1.00	-1.0	0.04	1.5
A_55_P1976574	NM_016712	Tmod4	0.82	1.4	0.62	1.2	0.03	1.5
A_55_P2356840	BC029726	1600020E01Rik	0.74	1.4	0.43	1.3	0.00	1.5
A_55_P1969032	NM_011268	Rgs9	0.89	1.3	0.86	1.1	0.03	1.5
A_55_P1994047	XM_619437	Gm5813	1.00	1.2	0.51	1.3	0.03	1.5
A_52_P624149	NM_011631	Hsp90b1	1.00	1.1	0.04	2.0	0.30	1.5
A_55_P2044045	NM_011732	Ybx1	1.00	1.2	0.00	1.9	0.18	1.4
A_55_P2028159	NM_001081343	3110043O21Rik	1.00	1.2	0.02	1.9	0.82	1.2
A_55_P2115151	NM_153420	Acpl2	1.00	1.1	0.04	1.8	0.63	1.2
A_55_P2035951	NM_001163042	Haus8	1.00	1.3	0.02	1.6	0.97	1.0
A_30_P01020072			1.00	1.1	0.00	1.6	0.96	1.0
A_66_P119376	NM_177715	Kctd12	1.00	1.2	0.02	-1.8	0.41	-1.3
A_51_P371119	NM_012001	Cops4	1.00	-1.1	0.04	-1.5	0.24	-1.3
A_55_P2115257	NM_001037997	Fert2	1.00	-1.1	0.03	-1.5	0.22	-1.3
A_51_P301736	NM_028032	Ppp2r2a	1.00	-1.1	0.02	-1.5	0.03	-1.3
A_55_P2103596	NM_011774	Slc30a4	1.00	-1.1	0.02	-1.5	0.13	-1.3
A_55_P2046443	NM_145395	Duoxa1	1.00	-1.1	0.02	-2.9	0.82	-1.3
A_55_P2062777	NM_015776	Mfap5	1.00	1.1	0.04	-1.6	0.13	-1.4
A_51_P320401	NM_009000	Rab24	1.00	1.0	0.00	-2.1	0.35	-1.4
A_30_P01033587			1.00	-1.0	0.04	-1.8	0.16	-1.4
A_51_P439403	NM_011059	Padi1	1.00	-1.0	0.00	-1.8	0.15	-1.4
A_52_P674309	NM_013826	Mocs2	1.00	-1.1	0.00	-1.7	0.13	-1.4
A_55_P2044710	NM_080444	Asb10	1.00	-1.2	0.05	-1.5	0.03	-1.4
A_55_P2076533	NM_026784	Pmvk	0.83	-1.4	0.04	-1.6	0.04	-1.4
A_51_P455866	NM_010125	Elf5	1.00	1.3	0.04	-2.7	0.59	-1.5
A_30_P01026224			1.00	1.1	0.04	-2.6	0.54	-1.5

A_55_P2072801	NM_029806	Lypd5	1.00	1.0	0.00	-2.1	0.24	-1.5
A_55_P2062549	NR_028307	Gm6524	1.00	1.0	0.22	-1.4	0.04	-1.5
A_51_P345593	NM_009269	Sptlc1	1.00	1.0	0.12	-1.4	0.00	-1.5
A_51_P438952	NM_026121	Bag4	1.00	-1.0	0.20	-1.4	0.04	-1.5
A_51_P510849	NM_030018	Tmem50b	1.00	-1.0	0.43	-1.3	0.03	-1.5
A_51_P147373	NM_133803	Dpp3	1.00	-1.1	0.05	-1.6	0.02	-1.5
A_51_P253547	NM_009984	Ctsl	1.00	-1.1	0.00	-2.1	0.12	-1.5
A_30_P01030433			1.00	-1.1	0.24	-1.3	0.03	-1.5
A_51_P117604	NM_025887	Rab5a	1.00	-1.1	0.03	-1.4	0.00	-1.5
A_55_P2082235			1.00	-1.1	0.33	-1.3	0.00	-1.5
A_51_P519189	NM_018799	Eif3i	1.00	-1.2	0.36	-1.3	0.02	-1.5
A_55_P2045258	NM_010119	Ehd1	0.75	-1.4	0.16	-1.4	0.00	-1.5
A_66_P102232	NM_001166537	Hmga1	0.68	-1.5	0.07	-1.5	0.03	-1.5
A_30_P01024134			1.00	1.1	0.00	-2.7	0.32	-1.6
A_51_P189272	NM_172051	Tmcc3	1.00	1.0	0.02	-2.0	0.10	-1.6
A_55_P2116924	NM_001037999	Dbi	1.00	1.0	0.10	-1.3	0.00	-1.6
A_55_P1963737	NM_010241	Aktip	1.00	-1.0	0.00	-1.5	0.00	-1.6
A_52_P489778	NM_178688	Ablim1	1.00	-1.0	0.15	-1.6	0.03	-1.6
A_52_P77204	NM_153542	Lrrc20	1.00	-1.1	0.02	-1.7	0.00	-1.6
A_55_P1999334	NM_008385	Inpp5b	1.00	-1.1	0.00	-1.9	0.03	-1.6
A_52_P480301	NM_029012	Sppl3	1.00	-1.1	0.04	-2.0	0.19	-1.6
A_55_P1956627	NM_001134385	Gpr160	1.00	-1.1	0.04	-2.0	0.13	-1.6
A_55_P2170514	NM_018754	Sfn	1.00	-1.1	0.04	-2.3	0.24	-1.6
A_51_P128575	NM_011681	Scgb1a1	1.00	-1.1	0.03	-3.6	0.52	-1.6
A_51_P222590	NM_007481	Arf6	1.00	-1.1	0.39	-1.4	0.04	-1.6
A_52_P194805	NM_026521	Zfp706	1.00	-1.1	0.29	-1.4	0.04	-1.6
A_55_P2149363	NM_172286	6430548M08Rik	1.00	-1.2	0.00	-1.8	0.02	-1.6
A_55_P2148912	NM_026416	S100a16	1.00	-1.2	0.03	-2.0	0.06	-1.6
A_55_P1980119	NM_024472	Gltpd1	1.00	-1.2	0.12	-1.6	0.03	-1.6
A_66_P132062	XM_001474815	Gm5608	1.00	-1.3	0.00	-1.8	0.02	-1.6
A_52_P676063	NM_026734	Tmem126b	1.00	-1.3	0.89	-1.1	0.03	-1.6
A_55_P2148957	NM_001085542	Gm13124	0.95	-1.4	0.10	-1.6	0.04	-1.6
A_51_P489153	NM_023733	Crot	1.00	1.1	0.45	-1.4	0.04	-1.7
A_52_P42834	NM_013918	Usp25	1.00	-1.1	0.00	-1.7	0.00	-1.7
A_55_P2070441	NM_031183	Sp6	1.00	-1.1	0.02	-2.1	0.08	-1.7
A_55_P2169415	NM_001037711	Cgn	1.00	-1.1	0.37	-1.5	0.04	-1.7
A_30_P01027526			1.00	-1.1	0.09	-1.5	0.00	-1.7
A_55_P1966620	NM_025887	Rab5a	1.00	-1.2	0.02	-1.9	0.03	-1.7
A_66_P124420			1.00	-1.2	0.52	-1.4	0.04	-1.7
A_66_P126313	NM_175092	Rhof	1.00	-1.2	0.99	-1.0	0.03	-1.7
A_55_P2054743	NM_172507	Sh3bgrl2	1.00	-1.2	0.13	-1.6	0.02	-1.7
A_30_P01026871			1.00	-1.2	0.13	-1.6	0.02	-1.7
A_55_P1979330	NM_011932	Dapp1	1.00	-1.3	0.21	-1.5	0.03	-1.7
A_30_P01026014			1.00	-1.3	0.09	-1.7	0.03	-1.7
A_66_P112886	NM_011908	Ubl3	1.00	-1.3	0.48	-1.3	0.00	-1.7
A_55_P1993518	NM_001113362	Tbc1d14	1.00	-1.1	0.07	-1.8	0.00	-1.8
A_55_P1956593	NM_148927	Plekha4	1.00	-1.1	0.16	-1.6	0.00	-1.8
A_51_P187082	NM_008062	G6pdx	1.00	-1.1	0.24	-1.5	0.00	-1.8
A_55_P2007966	NM_177175	Tmem215	1.00	-1.2	0.03	-1.9	0.02	-1.8

A_55_P2086329	NM_016879	Krt85	1.00	-1.2	0.15	-1.8	0.04	-1.8
A_51_P329370	NM_030093	Snmp25	1.00	-1.2	0.45	-1.5	0.03	-1.8
A_52_P203948	NM_177845	Pla2g4e	1.00	1.2	0.04	-3.4	0.30	-1.9
A_51_P140321	NM_026779	Mocos	1.00	-1.0	0.04	-2.5	0.11	-1.9
A_55_P2140057	NM_001159374	Krt32	1.00	-1.0	0.02	-4.1	0.31	-1.9
A_55_P2054331	XM_982830	LOC236260	1.00	-1.0	0.08	-1.9	0.03	-1.9
A_55_P2162160	NM_009672	Anp32a	1.00	-1.1	0.02	-2.7	0.13	-1.9
A_51_P423127	NM_001077411	Gba	1.00	-1.1	0.08	-1.9	0.04	-1.9
A_55_P2007001	NM_023465	Ctnnbip1	1.00	-1.1	0.07	-2.0	0.03	-1.9
A_52_P229709	NM_025356	Ube2d3	1.00	-1.2	0.16	-1.7	0.04	-1.9
A_52_P266530	NM_031156	Ide	1.00	-1.3	0.00	-2.7	0.06	-1.9
A_52_P434974	NM_152234	Ubqln1	1.00	-1.3	0.22	-1.8	0.04	-1.9
A_51_P113773	NM_029420	Giyd2	1.00	-1.4	0.10	-1.9	0.04	-1.9
A_55_P2004208	NM_007847	Defa-rs2	0.27	-2.2	0.03	-2.1	0.02	-1.9
A_51_P479914	NM_029094	Pik3cb	1.00	1.0	0.15	-1.9	0.03	-2.0
A_66_P115996	NM_172404	Ccbl1	1.00	-1.0	0.04	-2.5	0.09	-2.0
A_52_P12623	NM_134253	Bnip1	1.00	-1.0	0.03	-3.0	0.10	-2.0
A_55_P2120777	XM_355890	Vsig10l	1.00	-1.0	0.02	-3.0	0.05	-2.0
A_52_P436643	NM_018830	Asah2	1.00	-1.1	0.02	-2.3	0.00	-2.0
A_51_P491504	NM_172532	Aldh5a1	1.00	-1.1	0.02	-2.5	0.04	-2.0
A_51_P317941	NM_022032	Perp	1.00	-1.1	0.02	-2.9	0.14	-2.0
A_52_P63680	NM_175731	Acer1	1.00	-1.1	0.11	-1.9	0.04	-2.0
A_51_P130475	NM_009523	Wnt4	1.00	-1.2	0.02	-2.6	0.03	-2.0
A_30_P01023156			1.00	-1.2	0.12	-1.9	0.04	-2.0
A_55_P2046408			1.00	-1.2	0.13	-1.7	0.00	-2.0
A_55_P2076876	NM_001085503	Aadacl3	1.00	-1.3	0.07	-2.2	0.03	-2.0
A_52_P95910	NM_011673	Ugcg	1.00	-1.4	0.07	-1.8	0.00	-2.0
A_55_P2076994	NM_007845	Defa-rs10	0.59	-1.7	0.03	-2.0	0.00	-2.0
A_55_P2064351	NM_011703	Vipr1	1.00	1.4	0.04	-3.8	0.28	-2.1
A_51_P400366	NM_021375	Rhbg	1.00	1.1	0.04	-3.4	0.24	-2.1
A_55_P2124976	NM_145890	Grhl1	1.00	1.1	0.02	-3.4	0.11	-2.1
A_55_P2185821	NM_007819	Cyp3a13	1.00	1.0	0.04	-2.1	0.00	-2.1
A_55_P1967820	NM_145489	Al661453	1.00	1.0	0.03	-2.1	0.00	-2.1
A_55_P2171378	NM_001164557	Pdzk1ip1	1.00	-1.0	0.03	-3.4	0.13	-2.1
A_51_P410949	NM_001081176	Polr3g	1.00	-1.1	0.04	-2.6	0.07	-2.1
A_55_P2002757	NM_008528	Blnk	1.00	-1.1	0.00	-2.6	0.02	-2.1
A_55_P2079713	NM_153528	Gramd1c	1.00	-1.1	0.02	-2.8	0.09	-2.1
A_51_P314285	NM_026436	Tmem86a	1.00	-1.1	0.38	-1.6	0.00	-2.1
A_55_P1997936	NM_010476	Hsd17b7	1.00	-1.2	0.02	-2.4	0.04	-2.1
A_52_P355084	NM_144797	Metrn1	1.00	-1.2	0.00	-2.5	0.02	-2.1
A_55_P2078073	NM_145384	Pqlc2	1.00	-1.3	0.14	-2.0	0.03	-2.1
A_51_P447258	NM_009659	Alox12b	1.00	-1.3	0.07	-2.2	0.02	-2.1
A_55_P1959550	NM_001033320	Rltpr	1.00	-1.4	0.07	-2.3	0.04	-2.1
A_66_P101703	NM_001037822	Krtap5-5	1.00	-1.4	0.08	-2.0	0.03	-2.1
A_51_P257938	NM_020047	Tacstd2	1.00	1.2	0.04	-3.6	0.18	-2.2
A_52_P220783	NM_178745	Tmem229b	1.00	-1.0	0.04	-2.8	0.09	-2.2
A_55_P2124736	NM_181277	Col14a1	1.00	-1.0	0.02	-3.7	0.13	-2.2
A_30_P01020149			1.00	-1.1	0.00	-2.2	0.00	-2.2
A_55_P2015074	NM_029415	Slc10a6	1.00	-1.2	0.00	-2.9	0.04	-2.2

A_52_P465886	NM_026240	Gramd3	1.00	-1.2	0.32	-1.7	0.03	-2.2
A_55_P2081437	AK031012		1.00	-1.3	0.02	-2.5	0.00	-2.2
A_51_P395921	NM_033607	Uchl4	1.00	-1.3	0.24	-1.8	0.02	-2.2
A_51_P375146	NM_007643	Cd36	1.00	-1.4	0.64	-1.5	0.03	-2.2
A_51_P402160	NM_178763	Zfp750	1.00	1.3	0.04	-3.1	0.13	-2.3
A_55_P2171236	XM_355890	Vsig10l	1.00	-1.0	0.04	-2.7	0.05	-2.3
A_52_P255849	AK160183	Fam57a	1.00	-1.0	0.00	-3.3	0.03	-2.3
A_55_P2184606	AK154115		1.00	-1.1	0.02	-2.6	0.00	-2.3
A_55_P2022861	NM_001039176	Elovl1	1.00	-1.1	0.14	-2.0	0.03	-2.3
A_55_P2135551	NM_025718	Dnase1l2	1.00	-1.2	0.02	-4.3	0.13	-2.3
A_51_P117109	NM_173751	Ilvbl	1.00	-1.2	0.06	-2.0	0.02	-2.3
A_55_P1985304	NM_023860	Krtap5-3	1.00	-1.3	0.07	-2.7	0.04	-2.3
A_51_P210395	NM_053108	Glrx	1.00	-1.4	0.00	-2.8	0.00	-2.3
A_51_P336833	NM_024406	Fabp4	1.00	1.0	0.20	-2.0	0.02	-2.4
A_52_P421713	NM_001004155	9930012K11Rik	1.00	-1.1	0.00	-3.2	0.02	-2.4
A_55_P2022724	NR_030716	5430417L22Rik	1.00	-1.1	0.03	-4.0	0.15	-2.4
A_55_P2081805	NM_026740	Slc46a1	1.00	-1.1	0.07	-2.6	0.03	-2.4
A_30_P01025103			1.00	-1.2	0.03	-4.2	0.28	-2.4
A_51_P212390	NM_133712	Klk10	1.00	-1.2	0.06	-2.7	0.04	-2.4
A_52_P148514	NM_152803	Hpse	1.00	-1.3	0.04	-2.4	0.00	-2.4
A_52_P482251	NM_001010937	Gjb6	1.00	1.3	0.04	-4.9	0.16	-2.5
A_55_P2084965	NM_001039042	Klk13	1.00	1.3	0.02	-5.5	0.26	-2.5
A_55_P1953583	NM_001130513	Ace2	1.00	1.1	0.04	-4.6	0.19	-2.5
A_51_P275435	NM_172411	2310007B03Rik	1.00	1.1	0.06	-2.9	0.04	-2.5
A_55_P2084970	NM_027097	Klk12	1.00	1.1	0.15	-2.2	0.02	-2.5
A_30_P01018307			1.00	-1.0	0.02	-3.0	0.02	-2.5
A_55_P2066559	NM_001168693	Pp11r	1.00	-1.0	0.05	-3.1	0.03	-2.5
A_51_P427516	NM_019576	Thsd1	1.00	-1.1	0.02	-3.4	0.05	-2.5
A_30_P01024948			1.00	-1.2	0.04	-2.7	0.03	-2.5
A_51_P440047	NM_173752	1110067D22Rik	1.00	-1.4	0.00	-2.7	0.00	-2.5
A_52_P605812	NM_178595	Pthr1	1.00	-1.4	0.05	-2.8	0.02	-2.5
A_51_P487219	NM_012018	Cep110	1.00	-1.5	0.02	-4.2	0.00	-2.5
A_55_P2174143	NM_009265	Sprr1b	1.00	-1.5	0.63	-1.6	0.04	-2.5
A_55_P2023391	NM_001013756	Grhl3	1.00	1.1	0.04	-3.6	0.08	-2.6
A_52_P402677	NM_023903	Lipm	1.00	1.1	0.00	-5.5	0.07	-2.6
A_30_P01029477			1.00	1.0	0.11	-2.4	0.00	-2.6
A_51_P495560	NM_009374	Tgm3	1.00	-1.0	0.03	-3.4	0.03	-2.6
A_51_P441914	NM_008290	Hsd17b2	1.00	-1.0	0.20	-1.7	0.00	-2.6
A_52_P195246	NM_177775	Esyt3	1.00	-1.1	0.02	-3.7	0.06	-2.6
A_51_P344878	NM_022653	Thop1	1.00	-1.2	0.00	-3.0	0.00	-2.6
A_51_P463440	NM_130450	Elovl6	1.00	-1.2	0.04	-3.9	0.10	-2.6
A_65_P10195	NM_022879	Myl7	1.00	1.1	0.04	-3.5	0.07	-2.7
A_55_P1985015	NM_033620	Pard3	1.00	1.1	0.07	-2.7	0.02	-2.7
A_52_P338956	NM_001081169	Aspg	1.00	1.0	0.02	-3.7	0.06	-2.7
A_51_P472726	NM_145978	Pdlim2	1.00	-1.1	0.06	-3.4	0.04	-2.7
A_52_P35064	NM_028454	Tm7sf2	1.00	-1.2	0.04	-3.0	0.02	-2.7
A_55_P2171406	NM_028454	Tm7sf2	1.00	-1.2	0.00	-3.0	0.00	-2.7
A_55_P2015941			1.00	-1.3	0.00	-2.9	0.00	-2.7
A_51_P131888	NM_027112	Capns2	1.00	1.2	0.04	-3.8	0.06	-2.8

A_55_P1987146	NM_030067	Gpr115	1.00	1.1	0.00	-3.5	0.00	-2.8
A_51_P480904	NM_178645	Blmh	1.00	-1.1	0.04	-3.1	0.04	-2.8
A_55_P2063216	NM_019819	Dusp14	1.00	-1.1	0.03	-3.3	0.03	-2.8
A_51_P263965	NM_010442	Hmox1	1.00	-1.3	0.03	-3.6	0.02	-2.8
A_30_P01020140			1.00	-1.3	0.00	-3.9	0.00	-2.8
A_55_P2146655	XM_001472967	Gm2262	1.00	-1.3	0.02	-4.1	0.02	-2.8
A_55_P2029498	NM_207530	Osbpl1a	1.00	-1.3	0.07	-3.2	0.00	-2.8
A_66_P106783	NM_001081664	4833423E24Rik	1.00	1.1	0.00	-4.6	0.04	-2.9
A_30_P01033229			1.00	1.0	0.02	-3.5	0.00	-2.9
A_30_P01018420			1.00	1.0	0.00	-3.7	0.00	-2.9
A_55_P2109057	NM_177354	Vash1	1.00	-1.2	0.02	-3.3	0.00	-2.9
A_51_P173678	NM_029415	Slc10a6	1.00	1.2	0.00	-4.4	0.04	-3.0
A_55_P1997595	NM_028878	Slc6a19	1.00	1.0	0.05	-3.9	0.03	-3.0
A_30_P01022929			1.00	-1.0	0.03	-4.9	0.06	-3.0
A_52_P574759	NM_009036	Rbpjl	1.00	-1.6	0.07	-2.6	0.00	-3.0
A_55_P2130478	AK076465		1.00	1.0	0.02	-5.1	0.06	-3.1
A_55_P2165234	NM_001081961	2300005B03Rik	1.00	-1.0	0.10	-2.9	0.02	-3.1
A_55_P2023046	NM_178730	Tmprss11f	1.00	-1.1	0.04	-4.3	0.06	-3.1
A_55_P2120016	NM_213728	Krt72	1.00	-1.3	0.08	-3.4	0.04	-3.1
A_51_P351923	NR_027827	A030009H04Rik	1.00	1.1	0.06	-4.0	0.04	-3.2
A_55_P2055742	NM_001145875	9530008L14Rik	1.00	-1.0	0.00	-4.0	0.03	-3.2
A_51_P159612	NM_019487	Hebp2	1.00	-1.0	0.03	-4.3	0.02	-3.2
A_55_P2398995	NM_027042	Lelp1	1.00	-1.3	0.00	-3.2	0.00	-3.2
A_51_P429209	NM_011421	Smpd1	1.00	-1.3	0.02	-3.7	0.00	-3.2
A_51_P288876	NM_019631	Tmem45a	1.00	-1.3	0.03	-4.4	0.04	-3.2
A_52_P590625	NM_175532	Nlrp10	1.00	1.3	0.04	-3.9	0.04	-3.3
A_55_P2034475	NM_027548	Serpinb7	1.00	-1.1	0.00	-4.5	0.02	-3.3
A_30_P01031718			1.00	-1.2	0.02	-5.1	0.04	-3.3
A_55_P1953545	NM_010238	Brd2	1.00	-1.3	0.02	-4.2	0.03	-3.3
A_55_P2085340	XM_001475466	Abhd12b	1.00	-1.3	0.00	-4.8	0.00	-3.4
A_51_P438853	NM_025867	Serpinb11	1.00	1.0	0.02	-6.0	0.04	-3.5
A_55_P2057430	NM_027340	Lipn	1.00	-1.0	0.04	-4.6	0.03	-3.5
A_66_P103198	AK131883		1.00	-1.2	0.02	-4.2	0.03	-3.5
A_55_P2118525	XM_001476279	H60c	1.00	-1.3	0.10	-3.6	0.00	-3.6
A_52_P533270	NM_183281	2310005G13Rik	1.00	1.1	0.00	-5.6	0.03	-3.7
A_55_P2157735	NM_013504	Dsc1	1.00	-1.1	0.04	-4.8	0.04	-3.7
A_55_P2062986	NM_001033233	Tmprss11a	1.00	-1.1	0.00	-6.4	0.03	-3.7
A_55_P1983858	NM_022886	Scel	1.00	-1.1	0.00	-6.5	0.04	-3.7
A_51_P272066	NM_025929	2010109I03Rik	1.00	-1.1	0.06	-4.7	0.02	-3.7
A_51_P391805	NM_015789	Dkk11	1.00	-1.4	0.04	-4.4	0.02	-3.7
A_55_P2004746	NM_183319	Xkrx	1.00	1.1	0.03	-5.4	0.03	-3.9
A_55_P2134938	NM_001135991	Krtap10-4	1.00	-1.8	0.00	-3.7	0.00	-3.9
A_55_P2112882	NM_026945	Adh6a	1.00	1.1	0.07	-4.9	0.03	-4.0
A_55_P1954945	NM_027111	Lyg1	1.00	-1.3	0.03	-4.6	0.03	-4.0
A_55_P1972381	NM_008127	Gjb4	1.00	-1.3	0.02	-4.8	0.02	-4.1
A_55_P2027461	NM_027163	Il1f8	1.00	1.1	0.00	-5.1	0.00	-4.2
A_55_P2021953	NM_146600	Olfr700	1.00	1.0	0.17	-2.8	0.03	-4.2
A_66_P138319	NM_053115	Acox2	1.00	-1.4	0.02	-3.7	0.00	-4.3
A_55_P2071226	NM_001146087	Il1f5	1.00	1.1	0.12	-4.3	0.03	-4.4

A_55_P2038752	NM_146563	Olfr18	1.00	1.0	0.00	-5.1	0.00	-4.4
A_52_P172910	NM_027971	Serpinb12	1.00	-1.1	0.04	-5.2	0.02	-4.6
A_55_P1982533	NM_148941	Elovl4	1.00	-1.1	0.03	-5.2	0.02	-4.7
A_51_P243667	NM_023631	Aox4	1.00	1.0	0.00	-7.4	0.00	-5.0
A_52_P562267	NM_001033819	9130409I23Rik	1.00	-1.2	0.00	-6.7	0.02	-5.0
A_55_P2003746	NM_009126	Serpinb3a	1.00	1.7	0.00	-7.6	0.02	-5.1
A_55_P2085005	NM_011475	Sprp2i	1.00	1.2	0.00	-6.3	0.02	-5.1
A_51_P100997	NM_201363	Serpinb3c	1.00	1.6	0.00	-7.1	0.00	-5.7
A_51_P319180	NM_008475	Krt4	1.00	1.0	0.03	-6.0	0.02	-5.7
A_55_P2133997	NM_175210	Abca12	1.00	-1.0	0.00	-7.0	0.00	-5.7
A_55_P2125451	NR_003185	Sprp2j-ps	1.00	-1.1	0.00	-9.3	0.00	-5.7
A_55_P2050944	NM_019515	Nmu	1.00	-1.1	0.00	-7.9	0.00	-6.4

3.1.5 Chr Forestomach. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 17.5, 50, and 150 mg/kg-bw/day chrysene in the forestomach. The list is sorted from highest to lowest fold change in the 150 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	17.5 mg/kg-bw/day		50 mg/kg-bw/day		150 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_55_P1958906	NM_007732	Col17a1	0.30	2.3	0.07	3.1	0.01	3.9
A_55_P2388428	AK014513	4631405K08Rik	0.75	1.6	0.15	2.4	0.00	3.3
A_55_P1952915	NM_015825	Sh3bgr	0.47	2.1	0.19	2.5	0.03	3.1
A_55_P2052016	NM_030209	Crispld2	0.15	2.8	0.06	3.1	0.01	3.1
A_30_P01024815			0.26	1.9	0.11	2.0	0.00	2.8
A_55_P2077048	NM_172471	Itih5	0.59	1.7	0.41	1.7	0.04	2.7
A_55_P2023523	NM_011786	Aloxe3	0.17	2.4	0.13	2.2	0.02	2.7
A_30_P01025000			0.26	2.0	0.13	2.0	0.00	2.7
A_55_P1958480	BC089308	LOC545005	0.53	1.5	0.23	1.7	0.00	2.7
A_55_P1974567	NM_175556	Plch2	0.34	2.0	0.07	2.6	0.02	2.6
A_52_P173442	NM_177292	Wscd2	0.00	2.6	0.27	2.0	0.06	2.5
A_55_P1982727	NM_019874	Dnajb5	0.00	2.3	0.30	1.6	0.00	2.5
A_52_P920129	NM_010305	Gnai1	0.35	2.0	0.20	2.0	0.04	2.5
A_30_P01020135			0.73	1.4	0.00	2.5	0.00	2.5
A_30_P01025798			0.72	1.4	0.00	2.4	0.00	2.5
A_51_P234692	NR_003513	Neat1	0.85	1.3	0.00	2.5	0.00	2.5
A_52_P64356	NM_010097	Sparcl1	0.39	1.9	0.24	1.9	0.04	2.4
A_51_P455997	NR_027652	Meg3	0.62	1.5	0.11	2.1	0.01	2.4
A_52_P516409	NM_053185	Col4a6	0.51	1.6	0.32	1.7	0.01	2.4
A_55_P2167803	NM_001014423	Abi3bp	0.76	1.4	0.23	1.8	0.04	2.3
A_55_P2261772	AK082735	C230098O21Rik	0.27	1.9	0.28	1.7	0.04	2.3
A_55_P2131766	NM_023665	D4Wsu53e	0.95	-1.2	0.63	1.4	0.03	2.3
A_55_P1969615	NM_012040	Pnck	0.86	1.3	0.37	1.6	0.02	2.3
A_55_P2011290	NM_011856	Odz2	0.35	1.8	0.14	2.0	0.02	2.3
A_55_P1958532	NM_021877	Hr	0.10	2.1	0.05	2.2	0.01	2.3
A_55_P2023314	NM_001159344	Casz1	0.23	1.8	0.11	1.9	0.00	2.3
A_51_P365516	NM_009258	Spink3	0.89	1.2	0.76	1.2	0.00	2.3

A_55_P1997105	NM_172670	Gylt1b	0.21	1.7	0.02	2.0	0.00	2.3
A_30_P01018472			0.40	1.7	0.38	1.6	0.04	2.2
A_55_P2075080	NM_001029988	Fat2	0.70	1.5	0.61	1.4	0.04	2.2
A_51_P206405	NM_001081306	Ptprz1	0.45	1.7	0.26	1.7	0.04	2.2
A_51_P342567	NM_031185	Akap12	0.23	1.9	0.50	1.4	0.02	2.2
A_55_P2181251	NM_001001982	A430105I19Rik	0.26	1.7	0.15	1.7	0.00	2.2
A_55_P1956659	AK045799		0.53	1.5	0.19	1.7	0.00	2.2
A_30_P01032357			0.42	1.6	0.18	1.7	0.00	2.2
A_55_P2202524	AK034200	9330162012Rik	0.55	1.6	0.22	1.7	0.04	2.1
A_52_P686785	NM_053247	Lyve1	0.30	1.8	0.43	1.6	0.04	2.1
A_51_P368210	NM_145981	Phyhip	0.30	1.8	0.37	1.6	0.04	2.1
A_66_P105032	NM_001145034	Gm13889	0.28	1.7	0.64	1.3	0.03	2.1
A_55_P2059765	AK087349		0.38	1.6	0.21	1.7	0.02	2.1
		ENSMUSG0000006879						
A_55_P2030282	NM_001029930	0	0.72	1.4	0.46	1.5	0.01	2.1
A_55_P2031871	NM_146030	Plekhh3	0.29	1.5	0.12	1.6	0.00	2.1
A_51_P237752	NM_008986	Ptrf	0.44	1.6	0.25	1.6	0.00	2.1
A_30_P01021631			0.95	1.1	0.02	2.1	0.00	2.1
A_30_P01024344			0.76	1.4	0.33	1.6	0.04	2.0
A_30_P01024669			0.84	1.3	0.25	1.7	0.04	2.0
A_55_P1989296	NM_031176	Tnxb	0.64	1.5	0.25	1.6	0.04	2.0
A_55_P2064321	NM_001081171	Lama5	0.31	1.7	0.12	2.0	0.04	2.0
A_55_P2005470	NM_029568	Mfap4	0.12	2.0	0.18	1.7	0.03	2.0
A_55_P2053374	NM_178362	Sorbs1	0.26	1.8	0.46	1.4	0.03	2.0
A_55_P2067712	BC034076		0.29	1.6	0.15	1.6	0.02	2.0
A_52_P52849	NM_018867	Cpxm2	0.72	1.5	0.49	1.5	0.02	2.0
A_30_P01023251			0.89	1.2	0.02	2.1	0.01	2.0
A_52_P367520	NM_199465	Nexn	0.51	1.5	0.42	1.4	0.01	2.0
A_55_P1997106	NM_172670	Gylt1b	0.57	1.4	0.11	1.8	0.01	2.0
A_55_P1956502	NM_021510	Hnrnp1	0.28	1.5	0.04	1.8	0.00	2.0
A_51_P296036	NM_144847	Nrbp2	0.52	1.5	0.16	1.7	0.03	1.9
A_55_P2150343	NM_001037298	Fam38a	0.26	1.7	0.21	1.6	0.03	1.9
A_55_P2222870	NM_139300	Mylk	0.52	1.5	0.32	1.5	0.03	1.9
A_55_P1979728	NM_009716	Atf4	0.72	1.4	0.06	2.0	0.03	1.9
A_51_P500344	NM_145569	Mat2a	0.66	1.3	0.00	1.9	0.00	1.9
A_55_P2000409	NM_001002786	Rab44	0.26	1.5	0.12	1.6	0.00	1.9
A_55_P2157872	NM_001079695	Sfrs5	0.71	1.3	0.10	1.6	0.00	1.9
A_51_P114826	NM_019707	Cdh13	0.65	1.4	0.37	1.5	0.04	1.8
A_55_P2008061	NM_019923	Itpr2	0.83	1.3	0.27	1.5	0.04	1.8
A_55_P2022364	NM_008750	Nxn	0.41	1.5	0.42	1.4	0.04	1.8
A_55_P2004797	NM_001004468	Tacc2	0.30	1.6	0.20	1.6	0.03	1.8
A_30_P01020357			0.78	1.3	0.37	1.5	0.03	1.8
A_55_P2083694	NM_033615	Adam33	0.89	1.2	0.79	1.2	0.03	1.8
A_52_P19016	NM_016680	Sfrs16	0.73	1.3	0.20	1.5	0.02	1.8
A_66_P126425	NM_011508	Eif1	0.62	1.3	0.02	1.9	0.02	1.8
A_52_P445387	NM_007714	Clk4	0.96	1.1	0.10	1.7	0.02	1.8
A_55_P2319035	BC051535	AW011956	0.32	1.5	0.14	1.6	0.02	1.8
A_55_P1983036	NM_172605	Tdrd3	0.48	1.4	0.16	1.5	0.01	1.8
A_55_P1970636	NM_133952	Unc45a	0.27	1.6	0.38	1.4	0.01	1.8

A_55_P1985788	NM_198092	Usp2	0.85	1.3	0.73	1.2	0.01	1.8
A_55_P1957219	NM_008972	Ptma	0.28	1.5	0.04	1.8	0.01	1.8
A_66_P127567	NM_016813	Nxf1	0.61	1.3	0.00	1.7	0.00	1.8
A_55_P1966664	NM_172587	Cdc14b	0.38	1.3	0.15	1.4	0.00	1.8
A_51_P520966	NM_015790	Icosl	0.69	1.3	0.00	1.9	0.00	1.8
A_55_P1986306	NM_181470	Ltv1	0.00	1.5	0.00	1.5	0.00	1.7
A_52_P307739	NM_011443	Sox2	0.72	1.3	0.31	1.4	0.04	1.7
A_52_P494380	NM_199011	Dgkq	0.59	1.4	0.38	1.4	0.04	1.7
A_51_P305547	NM_011415	Snai2	0.41	1.4	0.75	1.2	0.03	1.7
A_55_P2171008	NM_007714	Clk4	0.84	1.2	0.04	1.6	0.03	1.7
A_55_P1988872	AK165756		0.51	1.4	0.26	1.4	0.03	1.7
A_51_P486217	NM_175638	Wnk4	0.27	1.5	0.37	1.4	0.03	1.7
A_52_P348250	NM_001164493	Klhl29	0.46	1.4	0.76	1.2	0.03	1.7
A_55_P2183750	NM_008679	Ncoa3	0.55	1.4	0.25	1.5	0.03	1.7
A_55_P1996578	NM_008010	Fgfr3	0.89	1.2	0.68	1.2	0.03	1.7
A_55_P1958275	NM_016707	Bcl11a	0.10	1.7	0.00	1.8	0.03	1.7
A_55_P2115442	NM_053109	Clec2d	0.98	1.0	0.11	1.6	0.02	1.7
A_55_P2040815	NM_153545	Lrrc45	0.86	1.2	0.15	1.5	0.02	1.7
A_30_P01033124			0.12	1.8	0.07	1.8	0.02	1.7
A_51_P242414	NM_177461	Micall1	0.48	1.4	0.58	1.2	0.02	1.7
A_55_P1968928	NM_027185	Def6	0.32	1.5	0.56	1.3	0.01	1.7
A_55_P2081123	NM_018873	Srcin1	0.52	1.3	0.11	1.5	0.01	1.7
A_51_P295420	NM_145931	Zc3h7a	0.88	1.2	0.11	1.5	0.01	1.7
A_51_P455807	NM_133838	Ehd4	0.62	1.3	0.17	1.5	0.01	1.7
A_30_P01025839			0.15	1.5	0.00	1.6	0.00	1.7
A_55_P1968143	NM_027349	Rbm25	0.70	1.2	0.05	1.5	0.00	1.7
A_55_P1979893	NM_017376	Tef	0.83	1.2	0.07	1.6	0.00	1.7
A_51_P386304	NM_207678	Ccnl2	0.95	1.1	0.13	1.6	0.00	1.7
A_55_P1962906	NM_001146060	Als2cl	0.61	1.2	0.08	1.5	0.00	1.7
A_51_P342906	NM_009164	Sh3bp1	0.26	1.5	0.37	1.3	0.00	1.7
A_55_P2114218	NM_138590	Zcchc7	0.89	1.1	0.00	1.6	0.00	1.7
A_51_P231687	NM_011879	Ik	0.26	1.4	0.02	1.6	0.00	1.7
A_55_P1953459	NM_009534	Yap1	0.65	1.3	0.45	1.3	0.04	1.6
A_66_P118759	NM_001029979	Safb2	0.75	1.2	0.19	1.4	0.04	1.6
A_55_P2009783	NM_026377	6330577E15Rik	0.33	1.4	0.20	1.4	0.04	1.6
A_55_P2373852	AK009987	2310058N22Rik	0.91	1.1	0.46	1.3	0.04	1.6
A_55_P2027969	NM_010860	Myl6	0.26	1.5	0.15	1.5	0.03	1.6
A_55_P2056774	NM_025330	Hsd17b14	0.26	1.5	0.56	1.2	0.03	1.6
A_55_P1969166	NM_011814	Fxr2	0.56	1.3	0.22	1.4	0.03	1.6
A_55_P2045946	NM_183137	2410002I01Rik	0.75	1.2	0.30	1.4	0.03	1.6
A_55_P1973402	NM_172562	Tada2a	0.61	1.3	0.19	1.4	0.03	1.6
A_51_P240986	NM_198604	Plekhg6	0.24	1.5	0.18	1.5	0.03	1.6
A_51_P133792	NM_175097	Prickle3	0.63	1.3	0.20	1.5	0.02	1.6
A_51_P467410	NM_008722	Npm1	0.29	1.4	0.12	1.5	0.02	1.6
A_55_P2124228	NM_028283	Uaca	0.29	1.4	0.12	1.5	0.02	1.6
A_52_P665202			0.17	1.6	0.12	1.5	0.02	1.6
A_55_P1990573	NM_009224	Snrnp70	0.87	1.2	0.20	1.4	0.02	1.6
A_51_P279437	NM_029662	Mfsd2a	0.40	1.3	0.10	1.5	0.02	1.6
A_51_P130427	NM_009439	Psmd3	0.79	1.2	0.19	1.4	0.02	1.6

A_51_P296100	NM_145999	Rhot2	0.37	1.4	0.11	1.5	0.02	1.6
A_55_P2071097	XM_001472762	Gm9774	0.24	1.5	0.11	1.5	0.02	1.6
A_55_P2046378	NM_145941	Eif4g1	0.29	1.4	0.11	1.5	0.01	1.6
A_55_P1994204	NM_177680	Ythdc1	0.48	1.3	0.00	1.7	0.01	1.6
A_51_P183995	NM_019458	Paf1	0.57	1.3	0.17	1.4	0.01	1.6
A_55_P2001203	NM_001039520	Dnm2	0.15	1.5	0.04	1.7	0.01	1.6
A_52_P360515	NM_017392	Celsr2	0.35	1.4	0.02	1.6	0.01	1.6
A_51_P498023	NM_023912	Scyl1	0.35	1.3	0.15	1.4	0.00	1.6
A_51_P123047	NM_019710	Smc1a	0.29	1.3	0.00	1.5	0.00	1.6
A_51_P104933	NM_145520	Trub2	0.34	1.2	0.00	1.5	0.00	1.6
A_30_P01017507			0.33	1.2	0.07	1.4	0.00	1.6
A_55_P2145227	NM_032008	Slmap	0.22	1.5	0.15	1.4	0.00	1.6
A_65_P03022	NM_172587	Cdc14b	0.44	1.3	0.48	1.2	0.00	1.6
A_55_P1980651	NM_001081359	Ubr5	0.34	1.3	0.07	1.5	0.00	1.6
A_30_P01021814			0.26	1.3	0.06	1.4	0.00	1.6
A_55_P1980180	NM_145556	Tardbp	0.21	1.4	0.17	1.4	0.00	1.6
A_51_P169920	NM_021303	Noc2l	0.62	1.2	0.32	1.3	0.00	1.6
A_51_P246317	NM_008630	Mt2	0.41	1.5	0.02	2.2	0.17	1.6
A_55_P2118674	NM_021327	Tnip1	0.72	1.3	0.00	2.1	0.06	1.6
A_55_P2101585	NM_010016	Cd55	0.44	1.3	0.42	1.3	0.04	1.5
A_55_P2034003	NM_207239	Gtf3c1	0.62	1.2	0.23	1.3	0.04	1.5
A_55_P2131875	NM_178627	Poldip3	0.39	1.4	0.10	1.5	0.04	1.5
A_55_P1993522	BC094673		0.70	1.2	0.48	1.2	0.04	1.5
A_55_P2062418	NM_016920	Atp6v0a1	0.19	1.4	0.15	1.4	0.04	1.5
A_55_P2356840	BC029726	1600020E01Rik	0.90	1.1	0.53	1.2	0.04	1.5
A_30_P01017746			0.67	1.2	0.34	1.3	0.04	1.5
A_55_P2054352	NM_029169	Rbm6	0.88	1.1	0.12	1.4	0.04	1.5
A_55_P2079619	NM_172448	Rnf43	0.30	1.4	0.04	1.7	0.04	1.5
A_51_P148355	NM_175433	Zfp710	0.33	1.4	0.04	1.6	0.04	1.5
A_55_P1995652	NM_207234	Rexo4	0.52	1.3	0.18	1.4	0.03	1.5
A_52_P313080	NM_010448	Hnrnpab	0.26	1.3	0.15	1.4	0.03	1.5
A_55_P2179834	NM_145596	Gatad2a	0.90	1.1	0.80	1.1	0.03	1.5
A_66_P103301	NM_148948	Dicer1	0.86	1.1	0.17	1.4	0.03	1.5
A_51_P370286	NM_011869	Med24	0.31	1.4	0.14	1.4	0.03	1.5
A_55_P2016346	NM_018749	Eif3d	0.53	1.3	0.02	1.5	0.03	1.5
A_55_P2169714	NM_172719	Gcn1l1	0.35	1.4	0.13	1.5	0.03	1.5
A_55_P2062622	NM_023144	Nono	0.37	1.3	0.15	1.4	0.03	1.5
A_55_P2386592	NM_001081122	Cep63	0.48	1.3	0.10	1.5	0.03	1.5
A_55_P1965391	NM_177771	Klhl18	0.12	1.5	0.50	1.2	0.03	1.5
A_55_P2034372	NM_172703	Eif4g3	0.84	1.2	0.13	1.4	0.03	1.5
A_55_P1997415	NM_177077	Exoc6b	0.24	1.4	0.29	1.3	0.02	1.5
A_55_P2064578	NM_008857	Prkci	0.26	1.4	0.17	1.4	0.02	1.5
A_55_P2086258	NM_028291	Pan3	0.75	1.2	0.23	1.3	0.02	1.5
A_55_P2041045	NM_134002	Csnk1g2	0.41	1.3	0.02	1.6	0.02	1.5
A_51_P258078	NM_138747	Nop2	0.34	1.3	0.18	1.3	0.02	1.5
A_55_P1981296	NM_001002929	Nup85	0.38	1.3	0.27	1.3	0.02	1.5
A_52_P88695	NM_016811	Dgka	0.12	1.5	0.21	1.3	0.02	1.5
A_55_P2015994	NM_013518	Fgf9	0.35	1.3	0.29	1.3	0.02	1.5
A_30_P01028695			0.30	1.3	0.40	1.2	0.02	1.5

A_55_P2078940	NM_198326	Nsfl1c	0.38	1.3	0.16	1.4	0.02	1.5
A_51_P202430	NM_001033313	Pdap1	0.29	1.3	0.13	1.4	0.02	1.5
A_55_P2141088			0.44	1.3	0.29	1.3	0.01	1.5
A_55_P1991802	NM_181417	Csrp2bp	0.79	1.2	0.10	1.4	0.01	1.5
A_55_P2069856	NM_177296	Tnp03	0.41	1.3	0.15	1.3	0.01	1.5
A_51_P379443	NM_001025392	Bclaf1	0.77	1.2	0.07	1.4	0.01	1.5
A_55_P2000823	NM_133242	Rbm39	0.95	1.1	0.23	1.3	0.01	1.5
A_55_P2014635	NM_025534	Ccdc82	0.97	1.0	0.53	1.2	0.01	1.5
A_52_P611798	NM_007840	Ddx5	0.83	1.2	0.14	1.4	0.01	1.5
A_52_P357402	NM_019988	Mlst8	0.37	1.2	0.08	1.4	0.01	1.5
A_55_P2019814	NM_001163263	Rnf20	0.53	1.3	0.06	1.5	0.01	1.5
A_55_P2092909	NM_019713	Rassf1	0.68	1.1	0.00	1.4	0.00	1.5
A_55_P2146002	NM_172990	Pank4	0.78	1.2	0.35	1.2	0.00	1.5
A_55_P1956842	XM_001478894	Gm6506	0.16	1.5	0.15	1.4	0.00	1.5
A_66_P101600	NM_008482	Lamb1-1	0.72	1.2	0.15	1.3	0.00	1.5
A_55_P1990663	NM_007840	Ddx5	0.85	1.1	0.14	1.3	0.00	1.5
A_52_P278497	NM_201256	Eif4ebp3	0.51	1.2	0.11	1.4	0.00	1.5
A_55_P2315457	NM_207670	Gripap1	0.34	1.3	0.08	1.4	0.00	1.5
A_55_P2120615	NM_198113	Ssh3	0.52	1.2	0.04	1.4	0.00	1.5
A_55_P1990127	NM_020329	Dolpp1	0.64	1.2	0.10	1.4	0.00	1.5
A_55_P2005190	NM_026101	Herc4	0.79	1.2	0.16	1.3	0.00	1.5
A_51_P342271	NM_001035123	Setd6	0.34	1.2	0.00	1.5	0.00	1.5
A_52_P311104	NM_012047	Brd7	0.43	1.2	0.06	1.3	0.00	1.5
A_55_P2145804	NM_026531	Aen	0.21	1.4	0.17	1.4	0.00	1.5
A_66_P111660	NM_013602	Mt1	0.76	1.3	0.00	3.1	0.30	1.5
A_55_P2044045	NM_011732	Ybx1	0.37	1.4	0.00	1.9	0.06	1.5
A_55_P2031167	NM_010107	Efna1	0.78	1.2	0.04	1.7	0.06	1.5
A_55_P1992257	NM_007457	Ap1s1	0.57	1.2	0.04	1.5	0.04	1.4
A_30_P01019965			0.49	1.2	0.02	1.5	0.05	1.4
A_51_P167374	NM_026181	Gpatch1	0.51	1.2	0.02	1.5	0.05	1.4
A_55_P2028821	NM_001166430	Hnrnpf	0.26	1.3	0.00	1.5	0.01	1.4
A_30_P01023424			0.12	1.3	0.00	1.5	0.00	1.4
A_55_P2097478	NM_010266	Gda	0.88	1.2	0.04	1.7	0.46	1.3
A_55_P2048011	NM_172585	Larp4b	0.68	1.2	0.02	1.6	0.17	1.3
A_52_P35377	NM_018807	Plagl2	0.70	1.2	0.00	1.5	0.09	1.3
A_55_P2111399	NM_001129803	Pcp2	0.88	1.1	0.04	1.5	0.91	1.1
A_55_P2121846	XM_994545	Gm9000	0.88	-1.1	0.00	-1.5	0.71	-1.1
A_55_P1991718	NM_013552	Hmmr	0.99	1.0	0.00	-1.5	0.60	-1.1
A_55_P2176240	NM_172134	Pdxk	0.72	-1.2	0.04	-1.6	0.52	-1.2
A_55_P2092296	NM_176848	Fbxo2	0.93	-1.1	0.02	-1.7	0.68	-1.2
A_30_P01021428			0.99	1.0	0.00	-2.5	0.65	-1.2
A_51_P132718	XM_896611	2310010J17Rik	0.00	-1.7	0.69	-1.2	0.24	-1.3
A_52_P302041	XM_001472266	LOC100044517	0.63	-1.2	0.00	-1.5	0.05	-1.3
A_30_P01025354			0.23	-1.3	0.00	-1.5	0.07	-1.3
A_66_P104390	NM_019718	Arl3	0.34	-1.3	0.00	-1.6	0.07	-1.3
A_51_P483557	NM_009458	Ube2b	0.26	-1.3	0.05	-1.5	0.04	-1.4
A_55_P1954400			0.52	-1.3	0.04	-1.6	0.08	-1.4
A_55_P2021109	NM_010500	Ier5	0.94	-1.1	0.04	-1.6	0.17	-1.4
A_55_P2009206	NM_133354	Sumo2	0.65	-1.3	0.02	-1.7	0.08	-1.4

A_55_P2073482	XM_001479274	Gm13430	0.85	-1.2	0.00	-1.6	0.04	-1.5
A_55_P1980721	XM_001473516	Gm16399	0.21	-1.4	0.13	-1.4	0.04	-1.5
A_52_P119117	NM_001163431	1810006K21Rik	0.34	-1.3	0.13	-1.4	0.04	-1.5
A_55_P2141311	NM_001012400	AU022252	0.74	-1.2	0.22	-1.4	0.04	-1.5
A_55_P2144391			0.24	-1.4	0.75	-1.1	0.04	-1.5
A_55_P2045114	NM_027457	5730437N04Rik	0.26	-1.5	0.12	-1.5	0.04	-1.5
A_55_P2182483	NM_010581	Cd47	0.71	-1.2	0.25	-1.4	0.04	-1.5
A_55_P2051962	NM_024171	Sec61b	0.39	-1.3	0.30	-1.3	0.04	-1.5
A_55_P2176753	XM_917662	LOC640614	0.70	-1.2	0.10	-1.5	0.04	-1.5
A_52_P575771	NM_026182	Mtfr1	0.76	-1.2	0.48	-1.2	0.03	-1.5
A_55_P1972128	NM_010761	Ccndbp1	0.86	-1.2	0.54	-1.2	0.03	-1.5
A_55_P2056348	XM_885168	Gm6181	0.26	-1.4	0.29	-1.3	0.03	-1.5
A_55_P2154536	NM_001159626	Hagh	0.51	-1.3	0.15	-1.4	0.03	-1.5
A_51_P105408	NM_024178	Alg14	0.94	-1.1	0.60	-1.2	0.03	-1.5
A_52_P572284	NM_008640	Laptm4a	0.79	-1.2	0.12	-1.5	0.03	-1.5
A_55_P2090406	NM_010376	H13	0.85	-1.2	0.51	-1.2	0.03	-1.5
A_51_P210956	NM_011693	Vcam1	0.35	-1.3	0.21	-1.3	0.02	-1.5
A_51_P357422	NM_025556	2410022L05Rik	0.64	-1.2	0.31	-1.3	0.02	-1.5
A_51_P428505	NM_025327	Krtcap2	0.56	-1.3	0.15	-1.4	0.02	-1.5
A_55_P1960281	NM_025426	Med7	0.70	-1.2	0.17	-1.3	0.02	-1.5
A_52_P543430			0.84	-1.2	0.35	-1.3	0.02	-1.5
A_51_P252199	NM_146234	Mmgt1	0.89	-1.1	0.27	-1.3	0.01	-1.5
A_55_P2168781			0.81	-1.2	0.17	-1.4	0.01	-1.5
A_51_P496845	NM_007604	Capza2	0.79	-1.2	0.12	-1.5	0.01	-1.5
A_51_P252410	NM_021538	Cope	0.24	-1.3	0.13	-1.3	0.01	-1.5
A_51_P401987	NM_019432	Tmem37	0.26	-1.4	0.13	-1.4	0.00	-1.5
A_51_P314763	NM_011231	Rabggtb	0.68	-1.2	0.13	-1.4	0.00	-1.5
A_55_P2055232	NM_011341	Sdf4	0.33	-1.3	0.15	-1.3	0.00	-1.5
A_55_P2127683	NM_027500	4933434E20Rik	0.88	-1.1	0.02	-1.4	0.00	-1.5
A_52_P229728	NM_009861	Cdc42	0.43	-1.3	0.10	-1.5	0.00	-1.5
A_55_P2091486	NM_026827	Tmem219	0.30	-1.3	0.07	-1.4	0.00	-1.5
A_65_P01783	NM_025895	Med28	0.76	-1.2	0.00	-1.7	0.08	-1.5
A_55_P1995622	NM_025624	Pomp	0.43	-1.4	0.00	-1.9	0.06	-1.5
A_51_P396708	NM_025315	Med21	0.76	-1.2	0.17	-1.5	0.04	-1.6
A_51_P504588	NM_027194	Tm2d2	0.66	-1.3	0.51	-1.3	0.04	-1.6
A_55_P2067682	NM_013795	Atp5l	0.23	-1.6	0.15	-1.6	0.04	-1.6
A_51_P483311	NM_183170	Mpv17l2	0.56	-1.3	0.57	-1.2	0.04	-1.6
A_52_P89683	XM_001474667	Gm14470	0.85	-1.2	0.08	-1.6	0.03	-1.6
A_55_P2127425	NM_025575	Sys1	0.43	-1.3	0.16	-1.4	0.02	-1.6
A_66_P129484	NM_026211	Tmed9	0.98	-1.0	0.14	-1.5	0.02	-1.6
A_55_P2108334	NM_138596	Med10	0.44	-1.3	0.24	-1.4	0.02	-1.6
A_30_P01033314			0.70	-1.2	0.07	-1.5	0.01	-1.6
A_30_P01028065			0.38	-1.4	0.10	-1.5	0.00	-1.6
A_55_P2145557			0.23	-1.4	0.05	-1.6	0.00	-1.6
A_51_P221014	NM_010581	Cd47	0.10	-1.4	0.02	-1.5	0.00	-1.6
A_30_P01025197			0.34	-1.4	0.02	-1.7	0.06	-1.6
A_55_P1969522	XM_001472002	Smt3h2-ps2	0.87	-1.2	0.02	-1.8	0.06	-1.6
A_55_P1969523	NM_133354	Sumo2	0.71	-1.3	0.00	-1.9	0.09	-1.6
A_52_P542970			0.36	-1.4	0.02	-2.0	0.06	-1.6

A_51_P336874	NM_025272	Atp6v0e	0.81	-1.3	0.40	-1.4	0.04	-1.7
A_55_P2175942			0.30	-1.5	0.29	-1.4	0.04	-1.7
A_51_P323610	NM_024439	H47	0.75	-1.3	0.40	-1.4	0.04	-1.7
A_55_P2029630	NM_011900	Mpdu1	0.89	-1.2	0.19	-1.5	0.02	-1.7
A_55_P2106175	NM_008102	Gch1	0.38	-1.4	0.67	-1.2	0.02	-1.7
A_55_P2175245	NM_030254	Tusc3	0.39	-1.4	0.12	-1.5	0.01	-1.7
A_55_P2155593			0.66	-1.3	0.07	-1.8	0.01	-1.7
A_55_P2016681	NM_025538	Alkbh7	0.51	-1.4	0.16	-1.5	0.01	-1.7
A_30_P01022383			0.78	-1.2	0.20	-1.4	0.01	-1.7
A_52_P210338	NM_001033305	Ndufb6	0.26	-1.4	0.12	-1.5	0.00	-1.7
A_55_P1999842	XM_001477263	Gm3386	0.16	-1.6	0.10	-1.6	0.00	-1.7
A_55_P1974467	NM_001033305	Ndufb6	0.29	-1.4	0.15	-1.4	0.00	-1.7
A_55_P2043723	NM_010261	Rabac1	0.26	-1.4	0.05	-1.5	0.00	-1.7
A_52_P375873	NM_012058	Srp9	0.43	-1.4	0.16	-1.6	0.02	-1.8
A_55_P2115235	NM_199195	Bckdhh	0.49	-1.4	0.63	-1.2	0.02	-1.8
A_55_P1980931			0.33	-1.5	0.02	-1.9	0.01	-1.8
A_52_P191975	NM_001003934	Rtn3	0.77	-1.3	0.02	-1.9	0.00	-1.8
A_51_P304170	NM_023386	Rtp4	0.00	-1.9	0.02	-1.8	0.00	-1.9
A_55_P2098802	NM_025352	Uqcrc	0.42	-1.5	0.39	-1.4	0.03	-1.9
A_51_P314264	NM_025448	Ssr2	0.73	-1.4	0.28	-1.6	0.03	-1.9
A_55_P2099750			0.33	-1.5	0.30	-1.4	0.01	-1.9
A_52_P401311	XM_484885	Gm5529	0.50	-1.5	0.42	-1.5	0.02	-2.0

3.1.6 DBahA Forestomach. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 6.25, 12.5, and 25 mg/kg-bw/day dibenz(ah)anthracene in the forestomach. The list is sorted from highest to lowest fold change in the 25 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	6.25 mg/kg-bw/day		12.5 mg/kg-bw/day		25 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_55_P2032079	NM_016974	Dbp	0.78	2.3	0.17	3.7	0.00	5.3
A_55_P2032081	NM_016974	Dbp	0.78	2.2	0.17	3.2	0.00	4.8
A_55_P2148534	BC096461	Nr1d2	0.76	1.7	0.00	2.6	0.00	2.9
A_55_P1979893	NM_017376	Tef	1.00	1.4	0.52	1.8	0.00	2.4
A_52_P303891	NM_011584	Nr1d2	1.00	1.3	0.32	1.8	0.00	2.0
A_30_P01025159			0.67	1.3	0.72	1.3	0.00	1.7
A_55_P2167530	BU610818	Scube3	0.48	-1.2	0.00	-1.5	0.00	-1.4
A_30_P01030803			1.00	-1.1	0.00	-1.4	0.00	-1.5
A_55_P2057283	AY170502		1.00	-1.1	0.08	-1.5	0.00	-1.5
A_51_P383032	NM_010819	Clec4d	1.00	-1.2	0.00	-1.6	0.05	-1.5
A_55_P1969392	NM_026594	Rpl39l	1.00	-1.2	0.50	-1.3	0.00	-1.6

3.1.7 IP Forestomach. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 12.5, 25, and 50 mg/kg-bw/day indeno(123,cd)pyrene in the forestomach. The list is sorted from highest to lowest fold change in the 50 mg/kg-bw/day treatment group.

12.5 mg/kg-bw/day	25 mg/kg-bw/day	50 mg/kg-bw/day
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Agilent Probe	Accession Number	Gene Symbol	FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_52_P533280	NM_013637	Prm1	0.78	2.1	0.44	4.3	0.00	9.0
A_51_P138705	NM_008933	Prm2	0.73	2.1	0.44	3.6	0.00	7.6
A_51_P242403	NM_013580	Ldhc	0.80	1.7	0.50	2.9	0.00	6.1
A_30_P01027464	NM_00107969		0.87	1.2	0.73	1.4	0.00	1.9
A_55_P2157872	5	Sfrs5	0.97	1.0	0.71	1.3	0.00	1.7
A_66_P106760	NM_153397	Adam32	0.99	1.0	0.77	1.2	0.00	1.5
A_55_P2096204	NM_172262	Kdm1b	0.00	-1.5	0.00	-1.5	0.00	-1.5
A_55_P2058957	NM_009306	Syt1	0.00	-1.8	0.20	-1.7	0.34	-1.5
A_55_P2001494	NM_013598	Kitl	0.93	-1.1	0.44	-1.6	0.00	-2.0
A_55_P2087984	NM_001164671	Dnaja1	0.48	-1.6	0.32	-1.9	0.00	-2.3

3.2 LIVER

3.2.1 BaA Liver. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR P $\leq$ 0.05, fold change $\pm$ 1.5) in response to sub-chronic oral exposure to 20, 40, and 80 mg/kg-bw/day benz(a)anthracene in the liver. The list is sorted from highest to lowest fold change in the 80 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	20 mg/kg-bw/day		40 mg/kg-bw/day		80 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_55_P1985788	NM_198092	Usp2	1.00	-1.0	0.75	1.4	0.02	3.9
A_66_P128293	NM_177391	Fam109b	1.00	-1.0	0.78	-1.2	0.00	3.2
A_55_P2170454	NM_008182	Gsta2	0.98	1.1	0.29	1.8	0.01	3.2
A_55_P2032081	NM_016974	Dbp	0.86	1.3	0.14	2.0	0.01	2.7
A_55_P1987439	NM_133779	Pigt	0.92	1.1	0.28	1.3	0.00	2.7
A_66_P112495	NM_001013390	Scn4b	0.95	-1.1	0.90	-1.1	0.00	2.7
A_51_P219483	NM_001024619	Tsku	0.96	-1.1	0.88	1.1	0.00	2.7
A_55_P2029106	NM_138313	Bmf	0.69	1.3	0.16	1.5	0.00	2.5
A_66_P136186	NM_009516	Wee1	0.97	1.1	0.39	1.5	0.01	2.5
A_55_P2162160	NM_009672	Anp32a	0.68	1.4	0.03	2.1	0.03	2.2
A_55_P2133632	NM_001081337	Sipa1l2	0.90	1.1	0.02	1.5	0.00	2.1
A_30_P01026009			0.98	1.0	0.99	1.0	0.00	2.0
A_55_P1983754	NM_025557	Pcp4l1	0.80	1.2	0.23	1.4	0.00	2.0
A_52_P318673	NM_009117	Saa1	0.00	3.4	0.87	1.2	0.25	2.0
A_51_P155747	NM_028776	Scyl3	0.78	1.1	0.29	1.2	0.00	2.0
A_55_P2002319	NM_027129	2310035K24Rik	0.72	1.3	0.25	1.5	0.04	1.9
A_55_P2077613	NM_153560	Fam102a	0.99	-1.0	0.80	1.1	0.02	1.8
A_55_P2144526	NM_001080381	Fam65b	0.38	1.3	0.01	1.6	0.00	1.8
A_55_P2018417	NM_001163645	Osbpl3	0.89	1.1	0.01	1.4	0.00	1.8
A_51_P240986	NM_198604	Plekhg6	0.51	1.3	0.61	1.2	0.00	1.8
A_55_P1994807	NM_011314	Saa2	0.00	3.4	0.30	1.7	0.29	1.8
A_30_P01024922			0.06	1.5	0.01	1.6	0.00	1.7
A_51_P386503	NM_026185	Abhd15	0.17	1.3	0.02	1.4	0.00	1.7

A_52_P373893	AK154578	Acvr1b	0.89	1.1	0.09	1.3	0.00	1.7
A_51_P308347	NM_172826	Dact2	0.37	1.2	0.07	1.3	0.00	1.7
A_55_P1967538	NM_015755	Hunk	0.31	1.4	0.99	1.0	0.03	1.7
A_51_P196844	NM_027881	Osbpl3	0.98	1.0	0.00	1.5	0.00	1.7
A_55_P1976351	NM_001042672	Prei4	0.60	1.4	0.02	2.0	0.17	1.7
A_55_P1987290	NR_004413	Rnu1b6	0.01	2.3	0.00	2.8	0.09	1.7
A_51_P502150	NM_012030	Slc9a3r1	0.27	1.3	0.11	1.4	0.00	1.7
A_51_P250807	NM_030176	Spata2L	0.97	1.0	0.32	1.3	0.01	1.7
A_30_P01019195			0.43	1.3	0.25	1.3	0.04	1.6
A_30_P01019132			0.36	1.3	0.64	1.2	0.04	1.6
A_30_P01031642			0.96	1.0	0.80	1.1	0.01	1.6
A_55_P2179726	NM_027279	2810422O20Rik	0.94	1.1	0.22	1.3	0.03	1.6
A_55_P2322709	AK014609	4633401B06Rik	0.85	1.1	0.15	1.4	0.04	1.6
A_55_P2029366	NM_025341	Abhd6	0.82	1.1	0.36	1.2	0.00	1.6
A_51_P164296	NM_021475	Adamdec1	0.01	1.7	0.11	1.4	0.02	1.6
A_55_P1960216	NM_009842	Cd151	0.79	1.1	0.75	1.1	0.00	1.6
A_51_P200667	NM_053155	Clnn	0.95	1.1	0.99	1.0	0.03	1.6
A_52_P217710	NM_008056	Fzd6	0.09	1.3	0.11	1.3	0.00	1.6
A_55_P1967539	NM_015755	Hunk	0.74	1.2	0.93	1.1	0.04	1.6
A_65_P10491	XM_001479477	Raph1	0.07	1.5	0.07	1.5	0.04	1.6
A_51_P191893	AK163489		0.97	1.0	0.27	1.3	0.04	1.5
A_30_P01018838			0.97	1.0	0.99	-1.0	0.03	1.5
A_30_P01017753			0.80	1.2	0.09	1.4	0.03	1.5
A_30_P01021665			0.87	1.1	0.18	1.3	0.03	1.5
A_55_P2135023			0.82	1.1	0.44	1.1	0.00	1.5
A_51_P494125	NM_007431	Alpl	0.69	-1.1	0.92	-1.0	0.00	1.5
A_52_P179178	NM_199028	Bend3	0.18	1.3	0.00	1.6	0.01	1.5
A_52_P748958	NM_007687	Cfl1	0.66	1.1	0.80	1.1	0.00	1.5
A_55_P2016540	NM_009963	Cry2	0.85	1.1	0.01	1.4	0.00	1.5
A_51_P161946	NM_175332	E130012A19Rik	0.84	1.1	0.37	1.2	0.04	1.5
A_51_P361220	NM_008055	Fzd4	0.80	1.1	0.11	1.4	0.04	1.5
A_55_P2095035	XM_129965	Gm1833	0.81	1.1	0.28	1.3	0.02	1.5
A_55_P1993708	NM_172814	Lrp12	0.90	1.1	0.05	1.3	0.00	1.5
A_52_P16563	NM_177727	Lsm14b	0.45	1.2	0.02	1.3	0.00	1.5
A_51_P369862	NM_178772	Nceh1	0.47	1.3	0.02	1.5	0.05	1.5
A_51_P430973	NM_027995	Paqr7	0.85	1.1	0.38	1.2	0.01	1.5
A_55_P2003096	NM_016915	Pla2g6	0.62	1.1	0.56	1.1	0.00	1.5
A_55_P2095342	NM_009024	Rara	0.02	1.4	0.00	1.4	0.00	1.5
A_55_P2141479	NR_004414	Rnu2	0.00	1.9	0.00	1.9	0.05	1.5
A_51_P300572	NM_009579	Slc30a1	0.31	1.3	0.16	1.3	0.03	1.5
A_52_P451834	NM_183262	Stk35	0.73	1.2	0.62	1.2	0.04	1.5
A_55_P1981090	NM_026909	Thap7	0.34	1.2	0.00	1.4	0.00	1.5
A_51_P273508	NM_025985	Ube2g1	0.85	1.1	0.60	1.1	0.01	1.5
A_51_P148355	NM_175433	Zfp710	0.76	1.1	0.54	1.1	0.00	1.5
A_55_P2286650	AK032850	6720462K09Rik	0.15	1.3	0.00	1.5	0.00	1.4
A_55_P1985623	NM_029600	Abcc3	0.15	1.4	0.03	1.5	0.17	1.4
A_52_P661044	NM_009914	Ccr3	0.04	1.5	0.92	-1.1	0.12	1.4
A_51_P314679	NM_001039521	Rm3	0.84	1.1	0.03	1.5	0.13	1.4
A_55_P2157872	NM_001079695	Sfrs5	0.04	-1.5	0.59	-1.2	0.17	1.4

A_66_P110798	AK145507		0.27	1.3	0.02	1.5	0.19	1.3
A_55_P2042813	NM_001039647	EG634650	0.47	-1.8	0.00	-3.4	0.80	1.3
A_30_P01025874			0.43	1.3	0.02	1.6	0.62	1.2
A_30_P01032527			0.18	1.4	0.01	1.6	0.70	1.2
A_30_P01032549			0.95	1.1	0.01	-1.9	0.56	1.2
A_55_P2210213	AK028644	4732423E21Rik	0.15	1.2	0.00	1.5	0.13	1.2
A_51_P299149	NM_145451	Gpx6	0.88	1.1	0.02	1.5	0.65	1.2
A_55_P1974695	AK083375		0.01	1.6	0.20	1.3	0.90	1.1
A_30_P01026106			0.47	1.3	0.02	1.5	0.75	1.1
A_55_P2067221	AK147351		0.62	1.2	0.02	1.5	0.79	1.1
A_51_P234544	NM_018745	Azin1	0.77	1.1	0.00	1.5	0.69	1.1
A_55_P2270412	AK049070	C230096K16Rik	0.85	1.2	0.02	1.6	0.75	1.1
A_55_P2035932	NM_008008	Fgf7	0.97	1.0	0.04	1.5	0.79	1.1
A_55_P2071601	NM_011144	Ppara	0.42	1.3	0.01	1.5	0.80	1.1
A_55_P1969002	NM_011535	Tbx3	0.06	1.6	0.01	1.9	0.82	1.1
A_55_P2131379	M60419	Ybx1	0.99	-1.0	0.03	1.9	0.93	1.1
A_52_P213483	AF045501		0.99	-1.0	0.00	1.6	0.94	1.0
A_30_P01021428			0.95	-1.1	0.00	-2.2	1.00	1.0
A_55_P2075230	XM_001474042	BC051226	0.22	-1.4	0.02	-1.6	0.99	1.0
A_55_P2223851	AK036131		0.14	1.6	0.03	1.7	0.98	-1.0
A_55_P2224431	AK018162	6330412A17Rik	0.00	1.6	0.83	1.1	0.99	-1.0
A_55_P2278775	AK050221	9130016M20Rik	0.58	-1.2	0.01	-1.5	0.99	-1.0
A_55_P2129373	NM_001013767	Capn11	0.86	1.1	0.01	1.6	0.94	-1.0
A_55_P2046877	NM_008239	Foxq1	0.88	-1.2	0.03	-2.2	0.97	-1.0
A_55_P2043509	NM_080462	Hnmt	0.89	-1.1	0.04	-1.7	0.95	-1.0
A_30_P01022977			0.00	-1.5	0.08	-1.3	0.59	-1.1
A_30_P01025896			0.15	-1.3	0.00	-1.5	0.57	-1.1
A_55_P2016064			0.21	-1.6	0.03	-1.8	0.83	-1.1
A_55_P1984881	NM_001162980	1700024P16Rik	0.59	-1.2	0.00	-1.6	0.68	-1.1
A_55_P2116689	NM_001162980	1700024P16Rik	0.66	-1.2	0.00	-1.6	0.79	-1.1
A_55_P2345116	AK051328	1700109K24Rik	0.40	1.3	0.03	1.5	0.91	-1.1
A_51_P120066	NR_033222	9330151L19Rik	0.01	-1.6	0.01	-1.5	0.86	-1.1
A_55_P2043367	NM_173786	Apol9a	0.66	-1.2	0.00	-1.6	0.76	-1.1
A_66_P110633	NM_001168660	Apol9b	0.73	-1.2	0.01	-1.5	0.85	-1.1
A_51_P212038	NM_133764	Atp6v0e2	0.83	-1.2	0.04	-1.9	0.84	-1.1
A_65_P16680	NM_019835	B4galt5	0.43	-1.3	0.04	-1.5	0.77	-1.1
A_51_P118779	NM_172725	C330006K01Rik	0.05	-1.5	0.01	-1.6	0.69	-1.1
A_55_P1990663	NM_007840	Ddx5	0.02	-1.5	0.03	-1.5	0.91	-1.1
A_66_P128931	XM_001479188	LOC100047937	0.66	-1.3	0.01	-1.7	0.87	-1.1
A_51_P310949	NM_008911	Ppox	0.34	-1.3	0.00	-1.6	0.75	-1.1
A_51_P216496	NM_009364	Tfpi2	0.77	-1.2	0.01	-1.7	0.70	-1.1
A_52_P68477	NM_172763	Zfp809	0.41	-1.4	0.03	-1.7	0.80	-1.1
A_30_P01027752			0.02	-1.5	0.00	-1.7	0.30	-1.2
A_30_P01028020			0.90	1.1	0.00	1.7	0.65	-1.2
A_55_P2041823	AK076101		0.38	-1.2	0.00	-1.5	0.18	-1.2
A_30_P01028097			0.97	-1.0	0.01	-1.7	0.58	-1.2
A_55_P2020306	NM_173765	Aasdh	0.28	-1.3	0.01	-1.5	0.48	-1.2
A_55_P2100290	NM_007416	Adra1b	0.30	-1.3	0.00	-1.6	0.40	-1.2
A_55_P1957922	NM_027560	Arrdc2	0.00	-1.5	0.00	-1.5	0.42	-1.2

A_55_P2088440	NM_027560	Arrdc2	0.04	-1.4	0.00	-1.6	0.50	-1.2
A_55_P1959953	NM_183162	BC006779	0.27	-1.3	0.00	-1.5	0.28	-1.2
A_51_P137336	NM_009864	Cdh1	0.69	-1.3	0.03	-1.7	0.69	-1.2
A_55_P2115442	NM_053109	Clec2d	0.00	-2.2	0.03	-1.6	0.52	-1.2
A_51_P382928	NM_145529	Cstf3	0.30	-1.2	0.00	-1.5	0.17	-1.2
A_52_P27122	NM_153177	Eif2c4	0.45	-1.3	0.01	-1.6	0.35	-1.2
A_51_P152155	NM_029626	Glt8d1	0.02	-1.4	0.01	-1.5	0.22	-1.2
A_55_P2139087	NM_001013820	Gm5631	0.03	-1.7	0.25	-1.4	0.66	-1.2
A_55_P2327958	NM_001162945	Mtx3	0.04	-1.5	0.02	-1.4	0.55	-1.2
A_55_P1990573	NM_009224	Snmp70	0.04	-1.3	0.00	-1.5	0.30	-1.2
A_55_P2071286	NM_181820	Tmc4	0.00	-1.5	0.00	-1.6	0.31	-1.2
A_55_P1963344	NM_026573	Upf3b	0.15	-1.4	0.01	-1.5	0.43	-1.2
A_51_P487073	NM_138684	Wfdc12	0.57	-1.3	0.04	-1.6	0.68	-1.2
A_55_P2069525	NM_177462	Zmym6	0.00	-1.6	0.01	-1.5	0.50	-1.2
A_30_P01026904			0.03	-1.5	0.01	-1.5	0.18	-1.3
A_30_P01027782			0.00	-1.5	0.00	-1.5	0.09	-1.3
A_30_P01033133			0.00	-1.5	0.01	-1.4	0.03	-1.3
A_30_P01018953			0.02	-1.6	0.00	-1.7	0.22	-1.3
A_30_P01021218			0.56	-1.2	0.01	-1.5	0.13	-1.3
A_55_P2075258	AK015504		0.23	-1.4	0.01	-1.6	0.26	-1.3
A_30_P01022571			0.98	-1.0	0.02	-1.8	0.42	-1.3
A_30_P01033600			0.60	-1.5	0.01	-2.5	0.67	-1.3
A_52_P176619	NM_001142744	2610110G12Rik	0.05	-1.4	0.01	-1.5	0.06	-1.3
A_51_P225832	NM_028314	2700097O09Rik	0.00	-1.4	0.00	-1.5	0.09	-1.3
A_55_P2361647	NR_030700	4831440E17Rik	0.00	-1.6	0.01	-1.4	0.07	-1.3
A_52_P337427	NM_027829	9030607L17Rik	0.06	-1.4	0.01	-1.5	0.20	-1.3
A_66_P117058	NM_173765	Aasdh	0.07	-1.4	0.01	-1.5	0.15	-1.3
A_55_P1962906	NM_001146060	Als2cl	0.12	-1.3	0.00	-1.7	0.06	-1.3
A_55_P2049582	NM_146085	Apbb3	0.28	-1.3	0.02	-1.5	0.25	-1.3
A_52_P251450	NM_016675	Cldn2	0.88	-1.1	0.04	-1.5	0.31	-1.3
A_52_P679152	NM_001042634	Clk1	0.01	-1.4	0.00	-1.5	0.05	-1.3
A_55_P2107731	NM_028518	Col20a1	0.14	-1.4	0.01	-1.5	0.12	-1.3
A_55_P2039044	NM_001105160	Cyp3a59	0.79	-1.3	0.03	-2.0	0.64	-1.3
A_51_P359570	NM_010501	lfit3	0.54	-1.2	0.00	-1.6	0.12	-1.3
A_52_P609334	NM_030075	Klhdc8b	0.04	-1.4	0.00	-1.6	0.06	-1.3
A_55_P2040815	NM_153545	Lrrc45	0.00	-1.5	0.00	-1.4	0.06	-1.3
A_66_P127567	NM_016813	Nxf1	0.00	-1.7	0.00	-1.7	0.07	-1.3
A_51_P261107	NM_139144	Ogt	0.00	-1.7	0.00	-1.6	0.21	-1.3
A_66_P125831	NM_008891	Pnn	0.00	-1.6	0.00	-1.5	0.06	-1.3
A_52_P670026	NM_021384	Rsad2	0.89	-1.1	0.01	-1.6	0.16	-1.3
A_52_P171791	NM_001031814	Smg1	0.00	-1.5	0.00	-1.5	0.02	-1.3
A_52_P550147	AJ584850	Sned1	0.02	-1.5	0.04	-1.4	0.26	-1.3
A_51_P267933	NM_175692	Snhg11	0.09	-1.7	0.01	-1.9	0.50	-1.3
A_55_P2059606	NM_019963	Stat2	0.25	-1.3	0.00	-1.7	0.20	-1.3
A_51_P164939	NM_144916	Tmem150a	0.20	-1.3	0.01	-1.5	0.07	-1.3
A_52_P207635	NM_001033261	Zfc3h1	0.02	-1.6	0.02	-1.7	0.27	-1.3
A_55_P1999022	NM_001008501	Zfp760	0.00	-1.6	0.02	-1.4	0.22	-1.3
A_52_P118706	AK052880		0.02	-1.5	0.04	-1.4	0.13	-1.4
A_30_P01033161			0.00	-1.5	0.00	-1.5	0.01	-1.4

A_30_P01030677			0.00	-1.5	0.00	-1.7	0.03	-1.4
A_55_P1959061	AF328926		0.00	-1.5	0.00	-1.5	0.06	-1.4
A_30_P01028826			0.00	-1.5	0.01	-1.4	0.02	-1.4
A_30_P01033086			0.02	-1.7	0.08	-1.5	0.19	-1.4
A_30_P01032624			0.86	-1.1	0.04	-1.5	0.13	-1.4
A_30_P01018881			0.11	-1.4	0.02	-1.5	0.05	-1.4
A_30_P01018104			0.10	-1.4	0.02	-1.5	0.05	-1.4
A_30_P01029457			0.05	-1.4	0.00	-1.6	0.05	-1.4
A_30_P01028635			0.99	-1.0	0.03	-1.8	0.37	-1.4
A_30_P01024852			0.90	1.2	0.03	-1.9	0.53	-1.4
A_30_P01022259			0.30	-1.4	0.00	-2.1	0.22	-1.4
A_30_P01027314			0.95	1.1	0.03	-2.3	0.61	-1.4
A_55_P2390776	NR_027981	1810064F22Rik	0.44	-1.3	0.00	-1.6	0.13	-1.4
A_51_P163233	NM_028814	2810403A07Rik	0.00	-1.4	0.00	-1.6	0.04	-1.4
A_55_P2251974	AK044736	A930038B10Rik	0.09	-1.5	0.01	-1.7	0.15	-1.4
A_55_P1985428	NM_0011111111	Atg16l2	0.61	-1.3	0.03	-1.5	0.18	-1.4
A_66_P115996	NM_172404	Ccbl1	0.31	-1.3	0.02	-1.5	0.05	-1.4
A_51_P470715	NM_009895	Cish	0.93	-1.2	0.01	-3.4	0.73	-1.4
A_52_P480088	NM_025685	Col27a1	0.01	-1.9	0.00	-1.9	0.37	-1.4
A_51_P325501	NM_053250	Crip3	0.02	-1.6	0.00	-1.7	0.14	-1.4
A_55_P2047621	NM_030021	D730039F16Rik	0.56	-1.3	0.03	-1.5	0.11	-1.4
A_52_P223809	NM_030150	Dhx58	0.78	-1.2	0.00	-1.7	0.11	-1.4
A_51_P406165	NM_030069	Fam55b	0.92	-1.1	0.01	-1.8	0.29	-1.4
A_55_P1952638	NM_053072	Fgd6	0.79	-1.2	0.00	-1.7	0.14	-1.4
A_55_P2040090	NM_001038699	Fn3k	0.01	-1.5	0.01	-1.5	0.10	-1.4
A_55_P2067533	NM_010446	Foxa2	0.99	-1.0	0.04	-1.7	0.28	-1.4
A_55_P1956502	NM_021510	Hnmph1	0.00	-1.4	0.00	-1.5	0.00	-1.4
A_51_P424221	NM_001164598	Irf2bp2	0.68	-1.2	0.02	-1.5	0.09	-1.4
A_55_P2103698	NM_015783	Isg15	0.80	-1.2	0.02	-1.6	0.16	-1.4
A_55_P2149500	NM_010630	Kifc2	0.03	-1.6	0.02	-1.5	0.18	-1.4
A_55_P2102857	NM_027221	Krtcap3	0.00	-1.4	0.00	-1.5	0.03	-1.4
A_55_P2064771	NM_010741	Ly6c1	0.77	-1.2	0.03	-1.7	0.17	-1.4
A_52_P128964	NM_029342	Nhej1	0.04	-1.4	0.00	-1.5	0.04	-1.4
A_55_P2016034	NM_001033207	Nlrc5	0.40	-1.3	0.00	-2.0	0.14	-1.4
A_52_P356204	NM_181547	Nostrin	0.87	-1.1	0.01	-1.5	0.06	-1.4
A_55_P2128606	NM_198658	Nr1h5	0.08	-1.5	0.02	-1.6	0.14	-1.4
A_55_P2053958	NM_030566	Rabep2	0.00	-1.5	0.06	-1.4	0.03	-1.4
A_66_P121787	NM_010156	Samd9l	0.15	-1.4	0.00	-1.6	0.03	-1.4
A_55_P2141306	NM_025292	Synj2bp	0.00	-1.5	0.00	-1.6	0.04	-1.4
A_55_P2083629	NM_019725	Tle2	0.03	-1.4	0.00	-1.5	0.07	-1.4
A_51_P348183	NM_001040130	Tmem141	0.23	-1.2	0.00	-1.5	0.00	-1.4
A_52_P158431	NM_080455	Tshz2	0.94	1.1	0.04	-1.6	0.21	-1.4
A_55_P2114953	NM_011909	Usp18	0.59	-1.3	0.02	-1.6	0.15	-1.4
A_55_P2079103	NM_133992	Usp52	0.06	-1.4	0.00	-1.5	0.02	-1.4
A_55_P2083879	NM_020518	Vsig2	0.21	-1.3	0.01	-1.5	0.06	-1.4
A_51_P108020	NM_001029929	Zmynd15	0.18	-1.3	0.00	-1.5	0.03	-1.4
A_30_P01031034			0.02	-1.5	0.00	-1.7	0.02	-1.5
A_30_P01020357			0.02	-1.5	0.00	-1.6	0.01	-1.5
A_30_P01029682			0.00	-1.5	0.00	-1.4	0.01	-1.5

A_30_P01029746			0.04	-1.6	0.11	-1.4	0.08	-1.5
A_30_P01032180			0.00	-1.6	0.00	-1.5	0.02	-1.5
A_55_P2184449	AK134871		0.00	-1.6	0.00	-2.0	0.03	-1.5
A_30_P01026923			0.12	-1.4	0.38	-1.2	0.04	-1.5
A_55_P1995593			0.71	-1.2	0.38	-1.2	0.04	-1.5
A_55_P2073329			0.99	1.0	0.70	-1.1	0.04	-1.5
A_30_P01026230			0.78	-1.1	0.77	-1.1	0.04	-1.5
A_55_P2170405			0.99	-1.0	0.07	-1.5	0.04	-1.5
A_52_P311031	AK016943		0.85	-1.1	0.78	-1.1	0.03	-1.5
A_30_P01024297			0.83	-1.1	0.67	-1.1	0.01	-1.5
A_30_P01019898			1.00	1.0	0.86	1.1	0.01	-1.5
A_30_P01028808			0.96	1.0	0.99	1.0	0.01	-1.5
A_30_P01027714			0.99	-1.0	0.14	-1.3	0.01	-1.5
A_55_P1959800	AK080717		0.66	-1.2	0.09	-1.3	0.01	-1.5
A_51_P483483	AK014549		0.01	-1.4	0.00	-1.4	0.00	-1.5
A_30_P01027463			0.90	1.1	0.58	1.1	0.00	-1.5
A_52_P392509	AK018404		0.03	-1.4	0.00	-1.5	0.00	-1.5
A_30_P01031307			0.20	-1.3	0.01	-1.4	0.00	-1.5
A_30_P01026204			0.50	-1.2	0.10	-1.2	0.00	-1.5
A_55_P2072925			0.95	-1.1	0.01	-1.9	0.29	-1.5
A_30_P01024256			0.25	-1.7	0.00	-2.8	0.38	-1.5
A_66_P107745	NR_027930	1110020A21Rik	0.00	-1.5	0.00	-1.6	0.01	-1.5
A_55_P2029746	XM_001472371	1200016E24Rik	0.88	1.1	0.83	-1.1	0.04	-1.5
A_55_P2201454	AK142062	2310079F09Rik	0.86	-1.1	0.03	-1.4	0.03	-1.5
A_55_P2095118	NR_015531	2700023E23Rik	0.04	-1.4	0.02	-1.4	0.01	-1.5
A_55_P2286493	AK016664	4933405E24Rik	0.95	-1.0	0.42	-1.2	0.00	-1.5
A_55_P2218334	AK034586	9430011C21Rik	0.92	1.1	0.76	-1.1	0.02	-1.5
A_55_P2116650	NR_002860	A130040M12Rik	0.56	-1.2	0.22	-1.3	0.01	-1.5
A_55_P1954724	NR_002860	A130040M12Rik	0.75	1.1	0.90	1.1	0.00	-1.5
A_55_P2367415	AK035805	A630026N12Rik	0.27	-1.4	0.00	-1.6	0.04	-1.5
A_55_P2052166	NM_029332	Akap13	0.86	-1.1	0.13	-1.3	0.01	-1.5
A_55_P2149931	NM_178407	Arap2	0.88	-1.1	0.42	-1.2	0.00	-1.5
A_55_P2055419	NM_001081195	Arid4a	0.92	-1.1	0.77	-1.1	0.01	-1.5
A_51_P155763	NM_001146089	Ascc3	0.60	-1.1	0.47	-1.1	0.00	-1.5
A_55_P2225460	AK157022	AW555355	0.94	-1.0	0.01	-1.4	0.00	-1.5
A_52_P43150	NM_007519	Baat	0.51	-1.2	0.03	-1.4	0.01	-1.5
A_55_P2340101	AK144577	BC062258	0.15	-1.4	0.00	-1.6	0.05	-1.5
A_55_P2303310	AK050309	C730036E19Rik	0.22	-1.6	0.02	-1.8	0.19	-1.5
A_55_P2068723	NM_011336	Ccl27a	0.14	-1.3	0.11	-1.3	0.00	-1.5
A_52_P657240	NM_027879	Cdc40	0.99	-1.0	0.67	-1.1	0.02	-1.5
A_52_P350750	NM_015730	Chrna4	0.01	-1.5	0.05	-1.4	0.02	-1.5
A_66_P115531	NM_145151	Crebzf	0.00	-1.7	0.00	-1.8	0.00	-1.5
A_51_P116813	NM_007809	Cyp17a1	1.00	1.0	0.92	1.0	0.01	-1.5
A_52_P640922	NM_177577	Dcdc2a	0.40	-1.2	0.17	-1.2	0.00	-1.5
A_52_P226127	NM_011805	Dido1	0.00	-2.0	0.00	-2.0	0.04	-1.5
A_55_P2430472	NM_011805	Dido1	0.93	-1.1	0.97	1.0	0.00	-1.5
A_51_P315904	NM_011817	Gadd45g	0.77	-1.5	0.01	-2.9	0.58	-1.5
A_55_P2124461	XM_001472850	Gm2251	0.80	-1.1	0.64	-1.1	0.01	-1.5
A_55_P2083894	XM_001478221	Gm3697	0.00	-1.6	0.00	-1.7	0.00	-1.5

A_55_P2037787	XM_001478340	Gm3798	0.00	-1.5	0.00	-1.6	0.00	-1.5
A_55_P1957213	XM_001479389	Gm4148	0.71	1.2	0.89	1.1	0.01	-1.5
A_55_P2120141	XM_001480410	Gm4522	0.66	-1.2	0.47	-1.2	0.02	-1.5
A_55_P2120919	XM_001481156	Gm4703	0.00	-1.6	0.00	-1.8	0.01	-1.5
A_55_P2041693	XM_619677	Gm5834	0.93	1.0	0.61	-1.1	0.00	-1.5
A_55_P2203051	NR_027008	Gt(ROSA)26Sor	0.02	-1.3	0.00	-1.5	0.00	-1.5
A_55_P1988202	NM_001045481	Ifi203	0.07	-1.4	0.01	-1.5	0.01	-1.5
A_52_P90363	NM_029803	Ifi27l2a	0.63	-1.4	0.02	-2.1	0.39	-1.5
A_51_P487690	NM_133871	Ifi44	0.29	-1.3	0.01	-1.5	0.02	-1.5
A_66_P103271	NM_001164598	Irf2bp2	0.81	-1.1	0.10	-1.3	0.02	-1.5
A_55_P2431118	NM_001110275	Itsn1	0.69	-1.2	0.32	-1.2	0.00	-1.5
A_52_P617636	NM_010636	Klf12	0.98	1.0	0.24	-1.3	0.03	-1.5
A_66_P130035	NM_010643	Klk1b24	0.98	-1.0	0.07	-1.4	0.04	-1.5
A_55_P2002933	NM_008456	Klk1b5	0.61	-1.2	0.04	-1.5	0.05	-1.5
A_55_P2102419	NM_023684	Lime1	0.01	-1.5	0.00	-1.6	0.02	-1.5
A_51_P459661	NM_021460	Lipa	0.97	-1.0	0.82	-1.1	0.04	-1.5
A_55_P2072041	XM_001472087	LOC100038980	0.69	-1.2	0.52	-1.1	0.01	-1.5
A_55_P2078831	XM_001473861	LOC100045156	0.82	-1.1	0.67	-1.1	0.01	-1.5
A_55_P2033615	XM_001473874	LOC100045214	0.66	-1.2	0.01	-1.4	0.01	-1.5
A_55_P1961241	XM_001476526	LOC100046627	0.17	-1.5	0.01	-1.7	0.12	-1.5
A_66_P112862	NR_033146	LOC100316870	0.99	-1.0	0.91	-1.1	0.03	-1.5
A_55_P2052385	NM_194336	Mpa2l	0.90	-1.1	0.04	-1.8	0.21	-1.5
A_55_P2082604	NM_001082476	Ndor1	0.73	-1.1	0.71	-1.1	0.00	-1.5
A_55_P2116978	NM_010889	Neb	0.27	-1.6	0.01	-2.2	0.33	-1.5
A_51_P296036	NM_144847	Nrbp2	0.09	-1.3	0.00	-1.4	0.00	-1.5
A_55_P2019719	NM_145227	Oas2	0.05	-1.4	0.00	-1.7	0.03	-1.5
A_55_P1998374	NM_001170433	Ppfbp1	0.92	-1.1	0.59	-1.2	0.01	-1.5
A_51_P504314	NM_025845	Prpf38b	0.58	-1.2	0.07	-1.3	0.00	-1.5
A_55_P2408330	NM_028234	Prr8	0.00	-1.6	0.00	-1.9	0.02	-1.5
A_55_P2151601	NM_010156	Samd9l	0.46	-1.3	0.00	-1.8	0.07	-1.5
A_51_P267278	NM_021301	Slc15a2	0.11	-1.6	0.00	-1.9	0.14	-1.5
A_55_P2022123	NM_001045531	Spata22	0.82	-1.1	0.09	-1.4	0.03	-1.5
A_55_P2139913	NM_009278	Ssb	0.88	-1.1	0.66	-1.1	0.02	-1.5
A_55_P1960298	NM_027797	Tmem80	0.04	-1.5	0.00	-1.7	0.01	-1.5
A_55_P2032818	NM_030706	Trim2	0.92	-1.1	0.58	-1.2	0.04	-1.5
A_55_P2052485	NM_181418	Ushbp1	0.01	-1.6	0.01	-1.8	0.08	-1.5
A_51_P476509	NM_175537	Zbtb38	0.62	-1.2	0.27	-1.3	0.03	-1.5
A_52_P217604	NM_182996	Zfp692	0.00	-1.7	0.00	-1.6	0.00	-1.5
A_30_P01021604			0.04	-1.5	0.01	-1.5	0.02	-1.6
A_30_P01031524			0.03	-1.5	0.03	-1.5	0.01	-1.6
A_30_P01030640			0.00	-1.5	0.00	-1.4	0.00	-1.6
A_30_P01022593			0.02	-1.6	0.20	-1.4	0.04	-1.6
A_30_P01030419			0.01	-1.6	0.01	-1.6	0.02	-1.6
A_55_P2129222	AK013167		0.95	1.1	0.36	-1.3	0.04	-1.6
A_30_P01019750			0.97	1.0	0.79	-1.1	0.03	-1.6
A_30_P01026357			0.91	-1.1	0.29	-1.3	0.01	-1.6
A_55_P2003199	AK141316		0.97	-1.0	0.60	-1.2	0.01	-1.6
A_55_P2131190			0.86	-1.1	0.01	-1.6	0.01	-1.6
A_55_P2003393	AK141001		0.06	-1.4	0.08	-1.4	0.01	-1.6

A_30_P01026192			0.89	-1.1	0.27	-1.2	0.00	-1.6
A_30_P01025480			0.18	-1.3	0.00	-1.6	0.00	-1.6
A_55_P2019577	NR_027818	1500011B03Rik	0.30	-1.4	0.00	-2.1	0.05	-1.6
A_52_P546660	NM_183112	1700029I15Rik	0.00	-1.8	0.01	-1.7	0.05	-1.6
A_55_P2387665	AK033690	9130221J18Rik	0.90	-1.2	0.02	-2.4	0.45	-1.6
A_55_P2276224	AK034303	9330175E14Rik	0.00	-1.6	0.00	-1.7	0.00	-1.6
A_55_P2105321	NM_023190	Acin1	0.78	-1.1	0.60	-1.1	0.01	-1.6
A_66_P127175	NM_177268	Ankrd16	0.00	-1.7	0.00	-1.7	0.01	-1.6
A_55_P1990879	NM_016812	Banp	0.17	-1.2	0.00	-1.4	0.00	-1.6
A_55_P2098598	NM_007569	Btg1	1.00	-1.0	0.28	-1.3	0.03	-1.6
A_55_P2298319	AK083183	C730029A08Rik	0.95	-1.1	0.01	-1.7	0.06	-1.6
A_55_P1987904	AK138814	Chpf2	0.00	-1.8	0.00	-1.9	0.00	-1.6
A_55_P2078494	NM_001080812	Cib3	0.18	-2.0	0.03	-2.3	0.36	-1.6
A_51_P180452	NM_133656	Crk	0.41	-1.3	0.35	-1.2	0.00	-1.6
A_51_P341465	NM_009970	Csf2ra	0.23	-1.4	0.00	-1.9	0.02	-1.6
A_55_P2303972	AK077973	D830044D21Rik	0.15	-1.6	0.01	-1.8	0.12	-1.6
A_55_P1992164	XM_001472210	E130102H24Rik	0.00	-1.9	0.00	-2.0	0.07	-1.6
A_55_P2430221	NM_029389	Fam35a	0.93	-1.1	0.88	-1.1	0.04	-1.6
A_51_P267544	NM_013522	Frg1	0.98	-1.0	0.94	-1.0	0.00	-1.6
A_66_P105032	NM_001145034	Gm13889	0.87	-1.1	0.30	-1.3	0.02	-1.6
A_55_P2146655	XM_001472967	Gm2262	0.76	-1.2	0.20	-1.3	0.02	-1.6
A_55_P2140212	XM_001474216	Gm2627	0.98	1.0	0.70	-1.1	0.02	-1.6
A_55_P2088720	XM_001477698	Gm3651	0.95	1.1	0.92	-1.1	0.04	-1.6
A_52_P119350	XM_001478300	Gm3866	0.76	-1.2	0.13	-1.4	0.03	-1.6
A_55_P2079713	NM_153528	Gramd1c	0.03	-1.6	0.00	-1.9	0.04	-1.6
A_55_P1982451	NM_016710	Hmgn5	0.81	-1.1	0.11	-1.2	0.00	-1.6
A_51_P347452	NM_028242	Htatsf1	0.26	-1.2	0.00	-1.3	0.00	-1.6
A_55_P2063257	NM_010706	Lgals4	0.30	-1.5	0.03	-1.8	0.12	-1.6
A_55_P1974452	NM_023684	Lime1	0.00	-1.8	0.00	-2.0	0.00	-1.6
A_55_P2162404	XM_001477908	LOC100047327	0.94	-1.1	0.27	-1.3	0.02	-1.6
A_55_P2001238	NM_026313	Luc7l3	0.35	-1.2	0.19	-1.2	0.00	-1.6
A_55_P2059019	NM_001163447	Mapk8ip3	0.00	-1.6	0.00	-2.0	0.00	-1.6
A_51_P514085	NM_013606	Mx2	0.18	-1.4	0.00	-2.3	0.02	-1.6
A_55_P2061645	AK140300	ND6	0.92	-1.1	0.88	-1.1	0.00	-1.6
A_52_P506250	NM_146655	Olfr441	0.89	-1.1	0.07	-1.3	0.00	-1.6
A_55_P1977653	NM_001081390	Palld	0.77	-1.2	0.06	-1.5	0.04	-1.6
A_51_P279038	NM_008904	Ppargc1a	0.72	-1.2	0.18	-1.4	0.03	-1.6
A_52_P134023	NM_153100	Rtp3	0.41	-1.4	0.01	-1.7	0.04	-1.6
A_55_P2149821	NM_026989	Sfrs11	0.00	-1.3	0.10	-1.3	0.00	-1.6
A_51_P390967	NM_021398	Slc43a3	0.69	-1.1	0.57	-1.1	0.00	-1.6
A_51_P314186	NM_001079686	Syne1	0.94	-1.1	0.28	-1.3	0.02	-1.6
A_55_P1955078	NM_145580	Tmem149	0.00	-1.7	0.00	-1.8	0.01	-1.6
A_55_P2126572	NM_027865	Tmem25	0.02	-1.8	0.00	-1.9	0.09	-1.6
A_55_P2130219	NM_133780	Tpr	0.99	-1.0	0.90	-1.0	0.00	-1.6
A_51_P235801	NM_007564	Zfp36l1	0.69	-1.2	0.00	-1.5	0.00	-1.6
A_55_P2153555	NM_001145778	Zkscan3	0.07	-1.5	0.11	-1.4	0.01	-1.6
A_30_P01031627			0.00	-1.5	0.00	-1.7	0.00	-1.7
A_30_P01022284			0.00	-1.6	0.00	-1.8	0.01	-1.7
A_30_P01032980			0.01	-1.7	0.02	-1.7	0.02	-1.7

A_55_P2146500			0.00	-1.7	0.00	-1.7	0.00	-1.7
A_30_P01024984			0.00	-1.9	0.00	-2.2	0.02	-1.7
A_30_P01025102			0.00	-2.1	0.00	-1.9	0.00	-1.7
A_30_P01022085			0.83	-1.2	0.03	-1.6	0.02	-1.7
A_30_P01030159			0.82	-1.2	0.06	-1.5	0.02	-1.7
A_30_P01027919			0.99	-1.0	0.01	-1.6	0.01	-1.7
A_55_P2076805	AK129022		0.48	-1.3	0.82	-1.1	0.00	-1.7
A_30_P01031134			0.50	-1.2	0.01	-1.5	0.00	-1.7
A_66_P116451	XM_001476411	2210039B01Rik	0.02	-1.7	0.00	-2.0	0.03	-1.7
A_55_P2011121	NM_029197	4930528F23Rik	0.83	-1.2	0.02	-1.6	0.01	-1.7
A_55_P2079928	NM_201362	Ccdc68	0.55	-1.3	0.00	-1.9	0.03	-1.7
A_52_P329367	NM_001025566	Chka	0.96	-1.1	0.21	-1.4	0.02	-1.7
A_66_P122511	NM_016675	Cldn2	0.97	1.0	0.17	-1.4	0.01	-1.7
A_55_P2176535	NM_010007	Cyp2j5	0.96	1.0	0.43	-1.2	0.01	-1.7
A_51_P330044	NM_028979	Cyp2j9	0.04	-1.7	0.00	-2.1	0.07	-1.7
A_55_P2142451	NM_026728	Echdc2	0.00	-1.6	0.00	-1.6	0.00	-1.7
A_55_P2142439	NM_026728	Echdc2	0.07	-1.4	0.05	-1.4	0.00	-1.7
A_51_P407879	NM_145382	Fam193b	0.00	-1.8	0.00	-2.1	0.00	-1.7
A_51_P421876	NM_016850	Irf7	0.72	-1.3	0.09	-1.6	0.04	-1.7
A_55_P2063256	NM_010706	Lgals4	0.18	-1.6	0.01	-1.9	0.06	-1.7
A_51_P497100	NM_010706	Lgals4	0.58	-1.4	0.00	-1.9	0.08	-1.7
A_55_P2026959	XM_001476908	LOC100046852	0.67	-1.2	0.09	-1.4	0.00	-1.7
A_66_P139460	NM_177389	Mia3	0.98	1.0	0.69	-1.1	0.00	-1.7
A_55_P2347976	NR_029382	Mirhg1	0.00	-1.7	0.00	-1.8	0.00	-1.7
A_55_P2034067	NM_001085509	Myom3	0.60	-1.5	0.01	-2.1	0.18	-1.7
A_55_P1985239	NM_178617	Necab1	0.56	-1.2	0.10	-1.3	0.00	-1.7
A_55_P1979699	NM_025287	Spop	0.64	-1.2	0.32	-1.2	0.00	-1.7
A_55_P1968355	NM_011599	Tle1	0.88	-1.1	0.60	-1.2	0.03	-1.7
A_55_P1996613	NM_029704	Ttc19	0.90	-1.1	0.94	1.0	0.00	-1.7
A_55_P2052490	NM_181418	Ushbp1	0.41	-1.3	0.00	-1.7	0.00	-1.7
A_66_P100937	XM_001487796	Zfp33b	0.99	-1.0	0.35	-1.3	0.00	-1.7
A_30_P01031014			0.00	-1.7	0.00	-1.6	0.00	-1.8
A_30_P01031112			0.00	-2.0	0.00	-2.3	0.00	-1.8
A_30_P01026776			0.98	-1.0	0.03	-1.8	0.03	-1.8
A_30_P01021387			0.72	-1.3	0.11	-1.5	0.03	-1.8
A_30_P01023533			0.69	-1.3	0.00	-2.0	0.02	-1.8
A_30_P01024055			0.09	-1.7	0.02	-1.9	0.02	-1.8
A_30_P01019709			0.07	-1.5	0.00	-1.7	0.01	-1.8
A_55_P2189893	AK042233	A630073K07Rik	0.89	-1.1	0.07	-1.5	0.00	-1.8
A_55_P2293351	AK082896	C430010C01	0.00	-1.8	0.00	-2.1	0.00	-1.8
A_55_P2080956	NM_013490	Chka	0.90	-1.1	0.60	-1.3	0.04	-1.8
A_52_P48681	NM_016674	Cldn1	0.78	-1.2	0.02	-1.9	0.04	-1.8
A_55_P2059010	NM_011254	Rbp1	0.20	-1.5	0.23	-1.4	0.00	-1.8
A_55_P2022499	NM_025669	Sfrs18	0.00	-1.9	0.00	-2.2	0.00	-1.8
A_55_P1976574	NM_016712	Tmod4	0.00	-2.0	0.00	-2.2	0.01	-1.8
A_55_P1966833	NM_001037713	Xaf1	0.74	-1.2	0.00	-1.8	0.00	-1.8
A_30_P01031056			0.00	-1.7	0.00	-1.7	0.00	-1.9
A_55_P2112225	AK191463		0.00	-2.0	0.00	-2.2	0.00	-1.9
A_30_P01018976			0.50	-1.4	0.18	-1.5	0.01	-1.9

A_55_P2153191			0.96	1.1	0.99	-1.0	0.01	-1.9
A_66_P115161	AK039734		0.74	-1.2	0.65	-1.2	0.00	-1.9
A_55_P2258261	AK050412	1810008I18Rik	0.89	1.2	0.86	-1.1	0.02	-1.9
A_51_P158073	NM_175687	A230050P20Rik	0.00	-1.8	0.00	-2.1	0.00	-1.9
A_51_P356265	NM_016845	Acrbp	0.00	-2.2	0.00	-2.6	0.01	-1.9
A_55_P1992849	NM_013462	Adrb3	0.02	-2.2	0.00	-3.1	0.06	-1.9
A_55_P2008538	NM_029362	Chmp4b	0.48	-1.4	0.03	-1.8	0.02	-1.9
A_55_P2140107	NM_009995	Cyp21a1	0.01	-2.2	0.00	-3.0	0.07	-1.9
A_51_P381321	NM_199080	Ddx17	0.00	-2.2	0.00	-2.5	0.00	-1.9
A_51_P383270	NM_175473	Fras1	0.25	-1.4	0.06	-1.4	0.00	-1.9
A_55_P1990633	NM_001146275	ligp1	0.61	-1.3	0.00	-1.9	0.00	-1.9
A_66_P134394	BC027050	Pde6c	0.06	-1.9	0.27	-1.5	0.03	-1.9
A_51_P229602	NM_008882	Plxna2	0.82	-1.2	0.12	-1.6	0.04	-1.9
A_55_P2097518	NM_001080943	Zdhhc22	0.77	-1.3	0.33	-1.5	0.04	-1.9
A_30_P01022612			0.00	-2.2	0.00	-2.6	0.01	-2.0
A_55_P2340593	AK007545	1810019D21Rik	0.00	-2.4	0.00	-3.0	0.00	-2.0
A_55_P2348582	AK019523	4833439F03Rik	0.15	-1.7	0.01	-2.0	0.00	-2.0
A_55_P2105685	NM_013462	Adrb3	0.01	-1.9	0.00	-2.8	0.01	-2.0
A_51_P315042	NM_016847	Avpr1a	0.91	-1.1	0.23	-1.5	0.02	-2.0
A_55_P1956223	NM_013490	Chka	0.70	-1.3	0.25	-1.5	0.01	-2.0
A_51_P153486	NM_018808	Dnajb1	0.19	-1.3	0.00	-1.7	0.00	-2.0
A_55_P1986341	NR_002858	Gm4956	0.00	-2.6	0.00	-2.4	0.01	-2.0
A_52_P322826	XM_001473345	Gm7461	0.67	-1.3	0.19	-1.5	0.01	-2.0
A_52_P86693	NM_026790	Ifi271l	0.69	-1.3	0.00	-2.2	0.00	-2.0
A_66_P139387	NM_011169	Prlr	0.95	1.1	0.74	-1.2	0.03	-2.0
A_30_P01021853			0.00	-2.5	0.00	-3.9	0.02	-2.1
A_30_P01021970			0.70	-1.2	0.71	-1.1	0.00	-2.1
A_52_P223508	NR_026976	6720401G13Rik	0.00	-2.2	0.00	-1.9	0.00	-2.1
A_51_P142923	NM_013490	Chka	0.64	-1.4	0.31	-1.5	0.03	-2.1
A_55_P2027213	NM_001163615	Krtap20-2	0.56	-1.4	0.01	-1.8	0.00	-2.1
A_66_P122158	NR_003518	Pisd-ps3	0.00	-2.1	0.00	-2.2	0.00	-2.1
A_55_P1963483	NM_030559	Vps16	0.89	-1.2	0.81	-1.2	0.04	-2.1
A_30_P01031894			0.00	-2.5	0.00	-3.1	0.00	-2.2
A_30_P01018771			0.00	-2.6	0.00	-2.5	0.00	-2.2
A_52_P379277	NM_134005	Enpp3	0.69	1.4	0.83	1.2	0.01	-2.2
A_55_P2048499	XM_001474426	Gm10061	0.37	-1.4	0.00	-1.8	0.00	-2.2
A_55_P2065929	XM_914410	LOC638393	0.28	-1.6	0.03	-1.8	0.00	-2.2
A_30_P01030953			0.00	-2.3	0.00	-2.5	0.00	-2.3
A_30_P01020303			0.00	-3.0	0.00	-5.3	0.02	-2.3
A_30_P01022030			0.00	-3.3	0.00	-5.3	0.01	-2.3
A_55_P2279807	AK160312	6720427I07Rik	0.00	-2.4	0.00	-2.3	0.00	-2.3
A_55_P2274378	AK035112	AW549542	0.01	-2.5	0.00	-3.2	0.03	-2.3
A_30_P01028297			0.00	-2.5	0.00	-2.7	0.00	-2.4
A_30_P01028215			0.63	-1.2	0.84	-1.1	0.00	-2.4
A_30_P01020677			0.56	-1.5	0.00	-2.2	0.00	-2.4
A_51_P386304	NM_207678	Ccnl2	0.00	-2.5	0.00	-2.8	0.00	-2.4
A_55_P2068459	NM_010479	Hspa1a	0.02	-1.7	0.00	-2.4	0.00	-2.4
A_51_P257885	NM_175217	Mmd2	0.58	-1.6	0.06	-2.2	0.03	-2.4
A_30_P01031754			0.56	-1.2	0.45	-1.2	0.00	-2.5

A_55_P2332194	AK140090	Gm15998	0.82	-1.3	0.00	-2.6	0.01	-2.5
A_55_P2127179	XM_142052	Gm379	0.64	1.5	0.02	-2.4	0.01	-2.5
A_55_P2061104	NM_001081285	Mup6	0.77	-1.4	0.85	-1.2	0.01	-2.5
A_52_P409578	NM_178045	Rassf4	0.15	-2.0	0.22	-1.7	0.02	-2.5
A_51_P455997	NR_027652	Meg3	0.02	-2.1	0.00	-2.6	0.01	-2.6
A_30_P01033314			0.75	-1.3	0.06	-1.9	0.00	-2.7
A_51_P416059	NM_153550	Dirc2	0.46	-1.4	0.03	-1.8	0.00	-2.7
A_55_P2024155	NM_001033324	Zbtb16	0.59	-1.5	0.00	-3.6	0.01	-2.8
A_51_P241995	NM_016919	Col5a3	0.00	-3.1	0.00	-3.7	0.00	-3.1
A_51_P162671	NM_008035	Folr2	0.95	1.1	0.91	-1.2	0.00	-3.1
A_55_P2042778	NM_153422	Pde5a	0.38	-1.6	0.00	-2.2	0.00	-3.4
A_55_P2165091	NM_145368	Acnat2	0.50	-1.7	0.00	-5.6	0.00	-3.7
A_51_P456208	NM_011575	Tff3	0.39	-1.8	0.16	-1.9	0.00	-3.9
A_52_P267391	NM_023835	Trim12	0.97	-1.1	0.97	-1.1	0.02	-3.9
A_30_P01023251			0.00	-3.5	0.00	-4.7	0.00	-4.0
A_55_P2075263	NM_145368	Acnat2	0.22	-2.1	0.00	-5.7	0.00	-4.1
A_30_P01020135			0.00	-3.7	0.00	-5.1	0.00	-4.2
A_30_P01025798			0.00	-3.9	0.00	-5.3	0.00	-4.5
A_55_P2055423	XM_485799	Nat8b	0.70	-1.8	0.09	-2.9	0.02	-4.5
A_30_P01021631			0.00	-4.5	0.00	-5.6	0.00	-4.6
A_51_P234692	NR_003513	Neat1	0.00	-4.6	0.00	-5.8	0.00	-4.6
A_30_P01029720			0.00	-4.2	0.00	-5.5	0.00	-4.8
A_66_P101646	AK165865	COX1	0.33	-1.8	0.00	-3.1	0.00	-5.7

3.2.2 BbF Liver. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 25, 50, and 100 mg/kg-bw/day benzo(b)fluoranthene in the liver. The list is sorted from highest to lowest fold change in the 100 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	25 mg/kg-bw/day		50 mg/kg-bw/day		100 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_51_P279693	NM_009992	Cyp1a1	0.83	-1.5	0.72	-1.5	0.00	6.7
A_55_P2032081	NM_016974	Dbp	0.00	4.0	0.00	5.1	0.00	5.8
A_55_P2032079	NM_016974	Dbp	0.00	3.5	0.00	4.1	0.00	5.0
A_55_P2135203	XM_001477565	Gm9454	0.11	2.3	0.00	3.1	0.00	5.0
A_55_P1953387	NM_010634	Fabp5	0.00	2.6	0.00	3.0	0.00	4.4
A_55_P2150976	XM_886827	Fabp5l2	0.00	2.6	0.00	3.0	0.00	4.2
A_55_P1998471	NM_009114	S100a9	0.18	1.7	0.00	2.6	0.00	3.9
A_55_P1983773	NM_001012273	Birc5	0.74	1.4	0.14	1.8	0.00	3.5
A_52_P366803	NM_177380	Cyp3a44	0.92	1.2	0.39	1.6	0.00	3.5
A_55_P1965154	NM_025565	Spc25	0.76	1.3	0.29	1.5	0.00	3.4
A_51_P269404	NM_008030	Fmo3	0.72	1.7	0.10	2.8	0.02	3.4
A_55_P1996946	NM_023223	Cdc20	0.87	1.2	0.36	1.5	0.01	3.2
A_55_P2122841			0.08	2.0	0.00	2.3	0.00	3.0
A_51_P414396	NM_153127	Mmrn2	0.00	1.5	0.00	2.2	0.00	2.8
A_55_P2085779	NM_145449	Ifi27l2b	0.99	1.0	0.19	1.8	0.00	2.7
A_66_P111562	NM_007631	Ccnd1	0.20	1.5	0.00	1.9	0.00	2.6

A_51_P421140	NM_026473	Tubb6	0.88	1.2	0.29	1.5	0.00	2.5
A_55_P2068663	NM_019641	Stmn1	0.63	1.4	0.16	1.6	0.00	2.5
A_51_P287198	NM_033373	Krt23	0.63	1.4	0.20	1.6	0.01	2.5
A_51_P360492	NM_008567	Mcm6	0.98	1.1	0.24	1.6	0.00	2.5
A_51_P451151	NM_026785	Ube2c	0.81	1.3	0.29	1.5	0.00	2.5
A_52_P140005	NM_001081205	Nipal1	0.88	1.2	0.00	2.9	0.00	2.4
A_51_P367866	NM_007913	Egr1	0.00	2.6	0.00	3.5	0.01	2.4
A_55_P1974487	NM_177195	4930417M19Rik	0.38	1.5	0.01	1.9	0.00	2.4
A_51_P365516	NM_009258	Spink3	0.99	-1.0	0.84	1.2	0.03	2.4
A_52_P686785	NM_053247	Lyve1	0.24	1.6	0.00	2.1	0.00	2.4
A_55_P2044653	NM_009999	Cyp2b10	0.29	1.9	0.00	2.7	0.02	2.3
A_51_P363947	NM_007669	Cdkn1a	0.05	1.6	0.00	1.9	0.00	2.3
A_52_P628067	NM_013538	Cdca3	0.94	1.1	0.40	1.4	0.00	2.3
A_51_P253803	NM_001081117	Mki67	0.85	1.2	0.18	1.6	0.00	2.3
A_52_P294510	BC029734	Fgl1	0.15	1.6	0.13	1.6	0.00	2.3
A_55_P2052563	NM_010495	Id1	0.64	1.3	0.22	1.5	0.00	2.2
A_51_P164014	NM_173762	Cenpe	0.92	1.2	0.49	1.4	0.01	2.2
A_55_P1973560			0.99	1.0	0.68	1.3	0.00	2.2
A_55_P1979893	NM_017376	Tef	0.30	1.5	0.00	2.0	0.00	2.2
A_55_P2044242	NM_001004148	Slc13a5	0.35	1.5	0.00	2.0	0.00	2.2
A_55_P2274378	AK035112	AW549542	0.51	1.4	0.00	2.2	0.00	2.2
A_55_P2011436	XM_001474074	Gm11223	0.78	1.3	0.22	1.5	0.00	2.2
A_52_P289091	NM_007813	Cyp2b13	0.72	1.4	0.55	1.4	0.03	2.2
A_52_P267391	NM_023835	Trim12	0.82	1.4	0.02	2.6	0.09	2.2
A_55_P2004447	NM_145594	Fgl1	0.13	1.7	0.33	1.4	0.01	2.1
A_52_P308465	NM_172775	Plxnb1	0.43	1.4	0.00	2.0	0.00	2.1
A_55_P2103706	XM_485921	Gm5593	0.88	1.2	0.40	1.5	0.02	2.1
A_51_P470715	NM_009895	Cish	0.05	4.1	0.00	3.9	0.16	2.1
A_52_P136709	NM_008796	Pctp	1.00	1.0	0.89	1.1	0.02	2.1
A_51_P284608	NM_001042605	Cd74	0.40	1.5	0.20	1.5	0.01	2.1
A_55_P2027392	NM_030258	Gpr146	0.31	1.4	0.00	1.6	0.00	2.1
A_55_P2022074	NM_013692	Klf10	0.50	1.5	0.09	1.7	0.01	2.1
A_51_P375146	NM_007643	Cd36	0.74	1.3	0.04	1.6	0.00	2.1
A_51_P329928	NM_013750	Phlda3	0.35	1.3	0.00	1.5	0.00	2.1
A_55_P2178578	NM_145403	Tmprss4	0.76	1.3	0.02	2.1	0.02	2.1
A_52_P140881	NM_177615	Slc26a10	0.00	1.6	0.00	2.1	0.00	2.1
A_51_P481920	NM_009828	Ccna2	0.85	1.2	0.30	1.5	0.01	2.1
A_66_P111660	NM_013602	Mt1	0.98	-1.0	0.57	1.3	0.00	2.1
A_55_P2046877	NM_008239	Foxq1	0.00	3.6	0.00	4.1	0.07	2.1
A_52_P566840	NM_133776	Gpr110	0.00	1.8	0.00	2.2	0.00	2.0
A_55_P2065671	NM_172301	Ccnb1	1.00	-1.0	0.74	1.2	0.01	2.0
A_55_P1992849	NM_013462	Adrb3	0.35	1.4	0.00	2.0	0.00	2.0
A_55_P2067777	NM_001162906	2410089E03Rik	0.22	1.5	0.00	1.8	0.00	2.0
A_55_P2115330	AK080089		0.97	1.1	0.33	1.5	0.03	2.0
A_55_P2074499	NM_001029985	Kcp	0.55	1.5	0.01	2.0	0.02	2.0
A_51_P117581	NM_022021	Cables1	0.09	1.8	0.01	1.9	0.00	2.0
A_51_P404193	NM_022435	Sp5	0.34	1.4	0.09	1.5	0.00	2.0
A_55_P1996941	NM_026785	Ube2c	0.87	1.2	0.59	1.3	0.00	2.0
A_55_P1984830	NM_145594	Fgl1	0.50	1.5	0.60	1.3	0.00	2.0

A_52_P197402	NM_029057	Tbc1d30	0.32	1.5	0.00	2.1	0.01	2.0
A_55_P1985788	NM_198092	Usp2	0.36	1.5	0.13	1.5	0.00	2.0
A_55_P2024046	NM_001080934	Slc16a5	0.86	1.2	0.04	1.8	0.01	2.0
A_51_P457528	NM_007630	Ccnb2	0.81	1.2	0.51	1.3	0.00	2.0
A_55_P2071059	NM_008668	Nab2	0.00	1.4	0.00	1.8	0.00	1.9
A_55_P2007601	NM_009160	Sftpd	0.96	1.1	0.25	1.5	0.02	1.9
A_55_P2063146			0.94	1.1	0.76	1.2	0.02	1.9
A_51_P152990	NM_011825	Grem2	0.09	1.7	0.00	1.9	0.00	1.9
A_51_P455647	NM_009801	Car2	0.35	1.5	0.12	1.5	0.00	1.9
A_55_P2021119	NM_194342	Unc84b	0.77	1.2	0.02	1.7	0.00	1.9
A_55_P2404484	NR_027980	1700001L05Rik	0.25	1.5	0.00	1.8	0.00	1.9
A_52_P354373	XM_001481164	1190002F15Rik	0.94	1.1	0.46	1.3	0.02	1.9
A_55_P2154132	NM_011654	Tuba1b	0.78	1.2	0.27	1.4	0.01	1.9
A_55_P2013586	NM_133351	Prss8	0.32	1.5	0.18	1.4	0.00	1.9
A_55_P1980636	NM_011497	Aurka	0.86	1.2	0.55	1.3	0.02	1.9
A_52_P240542	NM_010496	Id2	0.11	1.4	0.00	1.7	0.00	1.9
A_55_P2073377	NM_001081117	Mki67	0.90	1.2	0.41	1.4	0.01	1.9
A_51_P177762	NM_153133	Rdh9	0.70	1.3	0.12	1.5	0.00	1.9
A_51_P172054	NM_019521	Gas6	0.68	1.2	0.00	1.8	0.00	1.9
A_55_P2146560	XM_918601	LOC641240	0.72	1.3	0.36	1.4	0.01	1.9
A_55_P2071191	NM_133351	Prss8	0.13	1.5	0.00	1.7	0.00	1.9
A_52_P590154	NM_013786	Hsd17b6	0.09	1.5	0.00	1.7	0.00	1.9
A_55_P2018417	NM_001163645	Osbpl3	0.81	1.2	0.19	1.5	0.01	1.9
A_51_P153063	NM_029310	Fabp12	0.36	1.4	0.27	1.4	0.01	1.9
A_51_P133137	NM_009004	Kif20a	0.95	1.1	0.70	1.2	0.03	1.9
A_55_P2173982	NM_009104	Rrm2	0.82	1.2	0.24	1.5	0.00	1.9
A_55_P1976127	NM_007900	Ect2	0.93	1.1	0.52	1.3	0.01	1.9
A_52_P162099	NM_001004140	Ckap2	0.98	1.0	0.73	1.2	0.01	1.9
A_55_P2063257	NM_010706	Lgals4	0.69	1.2	0.06	1.5	0.01	1.9
A_55_P2133255	NM_019499	Mad2l1	0.82	1.2	0.47	1.3	0.01	1.8
A_52_P603038	NM_016968	Olig1	0.79	1.2	0.44	1.4	0.03	1.8
A_30_P01026091			0.93	1.1	0.71	1.1	0.00	1.8
A_51_P243755	NM_011388	Slc10a2	0.70	1.2	0.01	1.4	0.00	1.8
A_55_P2141860	NM_026531	Aen	0.77	1.2	0.23	1.3	0.00	1.8
A_51_P316951	NM_001167860	Wipf3	0.33	1.5	0.04	1.6	0.01	1.8
A_51_P196844	NM_027881	Osbpl3	0.87	1.2	0.29	1.4	0.02	1.8
A_55_P1982499	NM_177350	Gldn	0.55	1.4	0.11	1.6	0.01	1.8
A_55_P1988083	NM_145150	Prc1	0.97	1.1	0.77	1.2	0.02	1.8
A_52_P303891	NM_011584	Nr1d2	0.24	1.5	0.10	1.6	0.02	1.8
A_55_P2007964	NM_009987	Cx3cr1	0.58	1.3	0.00	1.8	0.02	1.8
A_55_P2178800	NM_201641	Ugt1a10	0.45	1.4	0.04	1.6	0.01	1.8
A_55_P2052485	NM_181418	Ushbp1	0.18	1.4	0.00	1.9	0.00	1.8
A_52_P64707	NM_008260	Foxa3	0.08	1.5	0.00	1.8	0.00	1.8
A_51_P402160	NM_178763	Zfp750	0.74	1.2	0.20	1.4	0.01	1.8
A_51_P255682	NM_008594	Mfge8	0.97	1.0	0.19	1.4	0.00	1.8
A_55_P2061338	NM_153081	Slc16a11	0.49	1.3	0.06	1.5	0.00	1.8
A_51_P375201	NM_013807	Plk3	0.15	1.7	0.02	1.8	0.02	1.8
A_52_P361081	NM_001112744	Arhgef16	0.75	1.3	0.27	1.4	0.02	1.8
A_51_P400366	NM_021375	Rhbg	0.27	1.3	0.28	1.3	0.00	1.8

A_55_P2042813	NM_001039647	EG634650	0.08	2.3	0.00	3.3	0.19	1.8
A_55_P1995074	NM_176902	Fam100b	0.89	1.1	0.08	1.4	0.00	1.8
A_55_P2059010	NM_011254	Rbp1	0.60	1.4	0.18	1.5	0.02	1.8
A_51_P121915	NM_145424	BC089597	0.74	1.2	0.52	1.3	0.01	1.8
A_55_P2127702	NM_012025	Racgap1	0.97	1.1	0.67	1.2	0.02	1.8
A_55_P2066559	NM_001168693	Pp11r	0.83	1.1	0.01	1.6	0.00	1.8
A_51_P189361	NM_027950	Osgin1	0.35	1.4	0.00	1.7	0.01	1.8
A_66_P128293	NM_177391	Fam109b	0.94	1.1	0.94	1.1	0.01	1.8
A_55_P2140107	NM_009995	Cyp21a1	0.42	1.3	0.05	1.5	0.00	1.8
A_55_P2063256	NM_010706	Lgals4	0.68	1.2	0.07	1.5	0.00	1.8
A_55_P2145804	NM_026531	Aen	0.58	1.3	0.06	1.5	0.01	1.8
A_55_P1967539	NM_015755	Hunk	0.70	1.3	0.30	1.4	0.03	1.7
A_55_P2124736	NM_181277	Col14a1	0.52	1.3	0.06	1.5	0.01	1.7
A_55_P2035018	NM_020001	Clec4n	0.76	1.2	0.12	1.4	0.00	1.7
A_55_P2156731	NM_010382	H2-Eb1	0.57	1.3	0.38	1.3	0.01	1.7
A_55_P1981836	NM_145536	BC020535	0.05	1.6	0.00	1.6	0.01	1.7
A_52_P574668	NM_011851	Nt5e	0.79	1.2	0.03	1.7	0.02	1.7
A_55_P2004801	NM_001040435	Tacc3	0.96	1.1	0.54	1.3	0.04	1.7
A_51_P451428	NM_001038602	Marveld2	0.15	1.5	0.00	1.8	0.00	1.7
A_66_P136788	NM_176902	Fam100b	0.93	1.1	0.14	1.3	0.01	1.7
A_30_P01021866			0.89	1.1	0.56	1.2	0.00	1.7
A_51_P240453	NM_133851	Nusap1	0.99	1.0	0.58	1.3	0.03	1.7
A_55_P2158018	NM_001099632	Rnf39	0.68	1.3	0.00	1.8	0.02	1.7
A_52_P111031	NM_001013753	Pcdh17	0.40	1.4	0.01	1.6	0.02	1.7
A_55_P2085955	NM_026400	Dnajb11	0.38	1.5	0.00	1.9	0.03	1.7
A_51_P300506	NM_183405	Cox6b2	0.99	1.0	0.65	1.2	0.02	1.7
A_55_P2105685	NM_013462	Adrb3	0.78	1.2	0.00	1.8	0.01	1.7
A_55_P2185900	NM_032002	Nrg4	0.55	1.4	0.02	1.8	0.05	1.7
A_55_P2015292	NM_008521	Ltc4s	0.26	1.3	0.00	1.8	0.00	1.7
A_55_P2180944	NM_029857	Tmco4	0.96	1.1	0.02	1.8	0.06	1.7
A_51_P430259	NM_001081275	1700009P17Rik	0.24	1.6	0.11	1.5	0.04	1.7
A_55_P2109505	XM_890094	Gm6594	0.47	1.3	0.22	1.3	0.00	1.7
A_55_P2153292	NM_146116	Tubb2c	0.98	-1.0	0.91	-1.1	0.04	1.7
A_55_P2126572	NM_027865	Tmem25	0.46	1.3	0.00	1.6	0.00	1.7
A_52_P211185	NM_008140	Gnat1	0.25	1.6	0.01	1.9	0.04	1.7
A_51_P497100	NM_010706	Lgals4	0.82	1.2	0.12	1.5	0.02	1.7
A_55_P2187034			0.91	1.1	0.63	1.2	0.02	1.7
A_55_P1987499	NM_013917	Pttg1	0.98	1.0	0.55	1.2	0.00	1.7
A_51_P279712	NM_145923	Rel1	0.49	1.3	0.01	1.5	0.00	1.7
A_55_P1982171	NM_016750	H2afz	0.98	-1.0	0.91	1.1	0.00	1.7
A_55_P2387665	AK033690	9130221J18Rik	0.39	1.4	0.05	1.5	0.01	1.7
A_51_P369252	NM_001080995	4632434I11Rik	0.31	1.4	0.04	1.5	0.00	1.7
A_55_P2073219	NM_138646	Hps4	0.45	1.3	0.01	1.6	0.00	1.6
A_55_P2073218	NM_138646	Hps4	0.57	1.2	0.00	1.5	0.01	1.6
A_51_P267933	NM_175692	Snhg11	0.89	1.1	0.20	1.4	0.04	1.6
A_55_P2112225	AK191463		0.80	1.1	0.04	1.4	0.02	1.6
A_51_P237585	NM_172793	Btnl9	0.15	1.5	0.03	1.5	0.01	1.6
A_52_P222073	NM_021609	Ccbp2	0.00	1.6	0.01	1.6	0.00	1.6
A_51_P483118	NM_016660	Hmga1	0.73	1.1	0.02	1.4	0.01	1.6

A_51_P265806	NM_030601	Clca2	0.39	1.5	0.03	1.7	0.07	1.6
A_52_P14456	NM_026886	Srrm4	0.81	1.2	0.08	1.5	0.04	1.6
A_51_P272553	NM_011498	Bhlhe40	0.22	1.5	0.13	1.5	0.04	1.6
A_55_P1974645	NM_009849	Entpd2	0.93	1.1	0.24	1.3	0.02	1.6
A_51_P288916	NM_177368	Tmtc2	0.64	1.3	0.08	1.5	0.04	1.6
A_55_P2123566	AK132916		0.90	1.1	0.15	1.5	0.03	1.6
A_51_P164296	NM_021475	Adamdec1	0.24	1.5	0.02	1.6	0.02	1.6
A_55_P2162404	XM_001477908	LOC100047327	0.77	1.2	0.37	1.3	0.04	1.6
A_51_P371750	NM_010766	Marco	0.13	1.7	0.00	1.9	0.06	1.6
A_51_P250807	NM_030176	Spata2L	0.75	1.2	0.15	1.5	0.03	1.6
A_55_P2182705	NM_010655	Kpna2	0.95	1.1	0.87	1.1	0.01	1.6
A_51_P482711	NM_053272	Dhcr24	0.91	-1.1	0.68	1.2	0.02	1.6
A_55_P1996578	NM_008010	Fgfr3	0.61	1.2	0.02	1.4	0.00	1.6
A_55_P2123471	NM_010655	Kpna2	0.97	1.0	0.98	1.0	0.02	1.6
A_51_P344566	NM_011121	Plk1	0.99	-1.0	0.92	1.1	0.04	1.6
A_55_P2028054	NM_016692	Incenp	0.96	1.1	0.69	1.2	0.03	1.6
A_55_P2094019	NM_177016	Slc17a4	0.29	1.4	0.29	1.3	0.01	1.6
A_55_P1994032	NM_013842	Xbp1	0.30	1.3	0.00	1.6	0.00	1.6
A_66_P128434	NM_001122733	Kit	0.05	1.6	0.01	1.6	0.01	1.6
A_55_P2037712	NM_133786	Smc4	0.98	1.0	0.54	1.2	0.02	1.6
A_55_P2012799	NM_133641	Rtkn	0.70	1.2	0.01	1.5	0.00	1.6
A_55_P1975475	NM_010786	Mdm2	0.88	1.1	0.32	1.2	0.00	1.6
A_51_P444437	NM_025968	Ptgr1	0.51	1.3	0.22	1.4	0.03	1.6
A_66_P136186	NM_009516	Wee1	0.76	1.2	0.00	1.8	0.09	1.6
A_30_P01026611			0.85	1.1	0.49	1.2	0.01	1.6
A_55_P2152225	NM_010544	lhh	0.40	1.4	0.13	1.5	0.04	1.6
A_55_P2011678	NM_001164557	Pdzk1ip1	0.84	1.2	0.14	1.4	0.02	1.6
A_55_P2084706	BC023946	Acaca	0.59	1.2	0.16	1.3	0.01	1.6
A_51_P495269	NM_008508	Lor	0.73	1.2	0.29	1.3	0.02	1.6
A_55_P1978201	NM_016692	Incenp	0.97	1.0	0.65	1.2	0.03	1.5
A_55_P2084631	NM_178184	Hist1h2an	0.89	1.1	0.37	1.2	0.01	1.5
A_51_P177171	NM_011587	Tie1	0.07	1.4	0.02	1.5	0.01	1.5
A_65_P16680	NM_019835	B4galT5	0.54	1.3	0.53	1.2	0.04	1.5
A_52_P547612	NM_178715	Tmem30b	0.00	1.6	0.02	1.4	0.01	1.5
A_55_P2303972	AK077973	D830044D21Rik	0.82	1.2	0.03	1.6	0.07	1.5
A_52_P608322	NM_010755	Maff	0.48	1.3	0.04	1.6	0.03	1.5
A_51_P446825	NM_176952	6430573F11Rik	0.81	1.2	0.38	1.3	0.01	1.5
A_51_P315904	NM_011817	Gadd45g	0.11	2.2	0.00	3.1	0.45	1.5
A_30_P01031894			0.85	1.1	0.13	1.4	0.04	1.5
A_51_P155503	NM_008457	Klk1b8	0.35	1.4	0.21	1.4	0.03	1.5
A_55_P2152074	NM_018737	Ctps2	0.95	1.1	0.16	1.3	0.00	1.5
A_51_P108020	NM_001029929	Zmynd15	0.41	1.2	0.00	1.5	0.01	1.5
A_55_P2078459	NM_010655	Kpna2	0.88	1.1	0.93	1.0	0.01	1.5
A_52_P194851	NM_001162906	2410089E03Rik	0.95	1.1	0.25	1.3	0.03	1.5
A_55_P2028600	NM_022410	Myh9	0.98	-1.0	0.46	1.1	0.00	1.5
A_66_P105843	NM_011181	Cyth2	0.82	1.1	0.20	1.2	0.00	1.5
A_52_P238019	NM_001038230	Anapc11	0.55	1.2	0.46	1.1	0.00	1.5
A_30_P01025742			0.00	1.4	0.00	1.5	0.00	1.5
A_30_P01033174			0.82	1.1	0.12	1.4	0.03	1.5

A_55_P2005426	NM_019445	Fmn2	0.43	1.3	0.39	1.2	0.02	1.5
A_51_P341465	NM_009970	Csf2ra	0.93	1.1	0.28	1.3	0.00	1.5
A_66_P116451	XM_001476411	2210039B01Rik	0.76	1.2	0.11	1.4	0.04	1.5
A_51_P103397	NM_011708	Vwf	0.51	1.3	0.12	1.4	0.02	1.5
A_55_P2136732	NM_025584	Cd99	0.92	1.1	0.13	1.4	0.03	1.5
A_55_P2177658	NM_019945	Mast1	0.27	1.4	0.00	1.6	0.05	1.5
A_55_P2243431	BC052902	Gdap10	0.58	1.4	0.03	1.7	0.14	1.5
A_52_P480402	NM_030235	Av9	0.86	1.1	0.39	1.2	0.02	1.5
A_52_P503730	NM_199012	Fchsd2	0.07	1.5	0.16	1.4	0.04	1.5
A_51_P448391	NM_023526	Nkiras1	0.46	1.3	0.57	1.2	0.02	1.5
A_55_P2027836	NM_020275	Tnfrsf10b	0.95	1.1	0.46	1.2	0.02	1.5
A_55_P2061737	NM_021278	Tmsb4x	0.93	1.1	0.28	1.3	0.04	1.5
A_52_P117352	NM_008120	Gja4	0.70	1.2	0.31	1.3	0.03	1.5
A_51_P500344	NM_145569	Mat2a	0.82	1.1	0.47	1.2	0.03	1.5
A_30_P01024578			0.79	1.1	0.13	1.3	0.02	1.5
A_55_P2023542	NM_007719	Ccr7	0.96	1.0	0.11	1.3	0.02	1.5
A_55_P2082688	NM_021515	Ak1	0.98	-1.0	0.49	1.2	0.01	1.5
A_55_P2111355	NM_178444	Egfl7	0.76	1.1	0.00	1.4	0.00	1.5
A_55_P2120254	NM_027106	Avpi1	0.95	1.1	0.62	1.2	0.02	1.5
A_30_P01022030			0.05	2.2	0.00	2.4	0.29	1.5
A_51_P450573	NM_009371	Tgfb2	0.65	1.2	0.02	1.4	0.00	1.5
A_55_P1954092	XM_001473985	Gm2563	0.79	1.1	0.28	1.3	0.00	1.5
A_55_P2072666	BC059104		0.25	1.4	0.12	1.4	0.02	1.5
A_52_P604629	NM_153287	Csmp1	0.00	1.6	0.00	1.7	0.03	1.5
A_51_P401343	NM_019500	Cldn14	0.44	1.3	0.01	1.5	0.02	1.5
A_51_P143893	NM_054098	Steap4	0.54	1.2	0.32	1.2	0.01	1.5
A_30_P01023033			0.15	1.3	0.04	1.4	0.00	1.5
A_51_P229911	NM_080435	Adcy4	0.00	1.4	0.18	1.3	0.00	1.5
A_55_P2127179	XM_142052	Gm379	0.77	1.2	0.84	1.1	0.03	1.5
A_55_P2054362	XM_001472585	LOC100048875	0.87	1.1	0.25	1.4	0.04	1.5
A_52_P612803	NM_009831	Ccng1	0.20	1.5	0.02	1.6	0.06	1.5
A_55_P2178084	NM_007872	Dnmt3a	0.38	1.3	0.00	1.5	0.01	1.5
A_51_P360918	NM_020578	Ehd3	0.89	1.1	0.66	1.2	0.03	1.5
A_51_P466829	NM_175474	Fam109a	0.56	1.2	0.08	1.3	0.00	1.5
A_51_P436878	NM_018820	Sertad1	0.42	1.3	0.02	1.5	0.02	1.5
A_51_P238722	NM_010740	Cd93	0.57	1.2	0.01	1.5	0.03	1.4
A_55_P2058957	NM_009306	Syt1	0.63	1.2	0.03	1.5	0.05	1.4
A_55_P1984307	NM_001081178	Gpr116	0.36	1.3	0.00	1.5	0.06	1.4
A_55_P2125811	NM_027102	Esam	0.49	1.3	0.02	1.5	0.09	1.4
A_51_P124535	NM_008590	Mest	0.48	1.3	0.04	1.5	0.12	1.4
A_55_P2019690	NM_001081349	Slc43a1	0.30	1.3	0.00	1.5	0.08	1.4
A_55_P2133632	NM_001081337	Sipa1l2	0.53	1.2	0.00	1.5	0.03	1.4
A_30_P01022612			0.52	1.3	0.03	1.5	0.04	1.4
A_30_P01027115			0.57	1.2	0.00	1.5	0.04	1.4
A_55_P2121456	NM_177632	Fam43a	0.64	1.2	0.00	1.5	0.02	1.4
A_52_P99888	NM_023158	Cxcl16	0.09	1.4	0.00	1.5	0.03	1.4
A_55_P2165560	NM_001004156	Plekhg5	0.42	1.2	0.00	1.5	0.00	1.4
A_30_P01022537			0.59	1.3	0.04	1.5	0.16	1.4
A_51_P502054	NM_145546	Gtf2b	0.30	1.3	0.00	1.5	0.03	1.4

A_55_P2104975	NM_001168294	Serpina3f	0.25	1.5	0.03	1.6	0.12	1.4
A_51_P472274	NM_009236	Sox18	0.22	1.3	0.01	1.5	0.03	1.4
A_66_P105689	NM_030684	Trim34	0.79	1.3	0.03	1.8	0.34	1.4
A_51_P346668	NM_012057	Irf5	0.81	1.2	0.01	1.7	0.24	1.4
A_55_P2105638	NM_001033348	Ralgapa2	0.85	1.1	0.04	1.5	0.09	1.4
A_51_P195958	NM_009344	Phlda1	0.07	2.4	0.00	2.9	0.63	1.4
A_51_P137452	NM_013809	Cyp2g1	0.18	1.7	0.01	2.0	0.41	1.4
A_30_P01020303			0.00	2.5	0.00	2.5	0.45	1.4
A_52_P298002	NM_008102	Gch1	0.33	1.4	0.02	1.5	0.12	1.4
A_52_P326354	NM_010155	Erf	0.79	1.1	0.00	1.5	0.03	1.4
A_52_P485850	NM_001171003	Mgam	0.23	1.3	0.02	1.5	0.08	1.4
A_51_P212420	NM_010681	Lama4	0.09	1.4	0.00	1.5	0.02	1.4
A_55_P2046509	NM_153319	Amot	0.88	1.1	0.01	1.5	0.05	1.4
A_55_P2114318	XM_001478955	Gm4080	0.72	1.2	0.01	1.6	0.20	1.3
A_55_P2043182	NM_153175	Gimap6	0.11	1.5	0.01	1.5	0.14	1.3
A_51_P455997	NR_027652	Meg3	0.60	1.3	0.03	1.6	0.44	1.3
A_30_P01024256			0.05	2.0	0.00	2.4	0.59	1.3
A_51_P329949	NM_153574	Fam13a	0.13	1.7	0.00	1.8	0.51	1.3
A_51_P378298	NM_026976	Faim3	0.68	1.1	0.01	1.5	0.04	1.3
A_55_P2011387	NM_145133	Tifa	0.57	1.2	0.03	1.5	0.26	1.3
A_55_P1983769	NM_001012273	Birc5	0.95	1.1	0.02	1.5	0.12	1.3
A_55_P1976978	NM_001081065	Zfp707	0.80	1.1	0.01	1.5	0.08	1.3
A_55_P2140151	NM_146018	Flcn	0.36	1.3	0.00	1.6	0.15	1.3
A_55_P2072925			0.24	1.6	0.00	1.9	0.75	1.2
A_55_P2046842	NM_001033805	G630016D24Rik	0.95	1.1	0.01	1.5	0.61	1.2
A_30_P01021853			0.41	1.5	0.04	1.8	0.76	1.2
A_51_P474459	NM_007707	Socs3	0.51	1.3	0.01	1.7	0.47	1.2
A_55_P2126192	NM_010195	Lgr5	0.00	1.7	0.38	1.3	0.61	1.2
A_66_P134394	BC027050	Pde6c	0.99	-1.0	0.02	1.5	0.56	1.2
A_30_P01033600			0.24	1.8	0.04	1.9	0.91	1.1
A_30_P01027314			0.50	1.7	0.02	2.6	0.98	1.0
A_55_P2335718	AK086235	Wdr45l	0.41	1.4	0.04	1.6	0.97	-1.0
A_51_P279437	NM_029662	Mfsd2a	0.50	-1.6	0.01	-2.1	0.89	-1.1
A_55_P2100241	NR_003278	Rn18s	0.00	-1.8	0.57	-1.2	0.84	-1.1
A_55_P2069579	XM_001475771	LOC100046200	0.57	-1.2	0.00	-1.5	0.14	-1.2
A_30_P01021428			0.91	-1.1	0.00	-2.4	0.71	-1.2
A_55_P2181928	NM_145977	Slc45a3	0.15	-1.4	0.00	-1.6	0.30	-1.2
A_52_P28651	NM_021424	Pvr11	0.55	-1.2	0.01	-1.5	0.23	-1.3
A_55_P2104259	NM_001077348	Plin5	0.85	-1.1	0.04	-1.5	0.17	-1.3
A_51_P333111	NM_009676	Aox1	0.47	-1.4	0.04	-1.6	0.46	-1.3
A_51_P349727	NM_134154	Slc25a45	0.83	-1.1	0.00	-1.5	0.16	-1.3
A_55_P2027213	NM_001163615	Krtap20-2	0.09	-1.4	0.00	-1.5	0.01	-1.4
A_30_P01032549			0.97	-1.1	0.02	-1.8	0.30	-1.4
A_51_P421876	NM_016850	Irf7	0.13	-1.5	0.00	-1.6	0.08	-1.4
A_30_P01018959			0.45	-1.3	0.00	-1.6	0.09	-1.4
A_30_P01018039			0.00	-1.6	0.16	-1.3	0.04	-1.4
A_55_P2083649	NM_020559	Alas1	0.50	-1.6	0.00	-2.4	0.53	-1.4
A_55_P2305420	AK038263	D9Wsu90e	0.07	-1.9	0.00	-2.1	0.29	-1.4
A_55_P1961210	NM_178111	Trp53inp2	0.89	-1.1	0.01	-1.5	0.07	-1.4

A_51_P344376	NM_013533	Gpr162	0.70	-1.2	0.04	-1.5	0.06	-1.4
A_30_P01021970			0.60	-1.2	0.51	-1.2	0.01	-1.5
A_66_P109802	NM_001159415	Gm4738	0.96	1.0	0.79	-1.1	0.03	-1.5
A_55_P1967133	NM_177741	Ppp1r3b	0.38	-1.3	0.08	-1.4	0.02	-1.5
A_55_P2051486	NM_001012323	Mup20	0.85	-1.1	0.18	-1.3	0.02	-1.5
A_51_P350453	NM_013743	Pdk4	0.51	-1.5	0.03	-1.9	0.18	-1.5
A_66_P126877	NM_134214	V1rh5	0.57	-1.3	0.09	-1.4	0.02	-1.5
A_30_P01022987			0.00	-1.5	0.04	-1.4	0.03	-1.5
A_51_P239737	NM_011082	Pigr	0.75	-1.2	0.83	-1.1	0.01	-1.5
A_51_P389539	NM_054053	Gpr98	0.55	-1.4	0.00	-1.9	0.15	-1.5
A_55_P2010097	NM_001045550	Mup2	0.95	1.1	0.46	-1.2	0.00	-1.5
A_55_P2238059	AK043390	A730091E23Rik	0.99	1.0	0.39	-1.3	0.01	-1.5
A_55_P2091350	AK140187	ND4L	0.99	-1.0	0.32	-1.2	0.00	-1.5
A_52_P493620	NM_026218	Fgfr1op2	0.56	-1.3	0.02	-1.6	0.05	-1.5
A_55_P1987811	XM_001474233	Gm2724	0.55	-1.3	0.01	-1.6	0.03	-1.5
A_52_P405206	NM_026281	Tm7sf3	0.49	-1.3	0.01	-1.6	0.07	-1.5
A_52_P467930	XM_001000802	Prdx6-rs2	0.63	-1.2	0.27	-1.3	0.01	-1.5
A_55_P2060343	NM_153102	Zfp352	0.07	-1.5	0.02	-1.5	0.03	-1.5
A_51_P503625	NM_001077353	Gsta3	0.31	-1.3	0.11	-1.4	0.03	-1.5
A_55_P2058467	XM_001479915	Gm4415	0.54	-1.2	0.19	-1.2	0.00	-1.5
A_55_P2031100	NM_016661	Ahcy	0.80	-1.1	0.17	-1.3	0.01	-1.5
A_66_P103271	NM_001164598	Irf2bp2	0.00	-1.5	0.06	-1.4	0.03	-1.5
A_52_P176160	NM_016661	Ahcy	0.14	-1.4	0.22	-1.3	0.01	-1.5
A_51_P480982	NM_025374	Glo1	0.84	-1.1	0.31	-1.2	0.00	-1.5
A_30_P01020013			0.88	-1.1	0.57	-1.2	0.01	-1.5
A_52_P30451	NM_016854	Ppp1r3c	0.75	-1.2	0.00	-1.6	0.04	-1.5
A_55_P2103963	NM_016668	Bhmt	0.73	-1.1	0.24	-1.2	0.00	-1.5
A_51_P516728	NM_010404	Hap1	0.08	-1.4	0.01	-1.4	0.01	-1.5
A_30_P01018128			0.42	-1.4	0.04	-1.6	0.07	-1.5
A_51_P117618	NM_023154	Ethe1	1.00	-1.0	0.93	1.0	0.02	-1.5
A_55_P1960291	NM_013769	Tjp3	0.48	-1.3	0.01	-1.5	0.02	-1.5
A_55_P1993419	NM_206537	Cyp2c54	0.54	-1.3	0.60	-1.2	0.03	-1.5
A_51_P431737	NM_145953	Cth	0.88	1.1	0.70	-1.1	0.02	-1.5
A_66_P112862	NR_033146	LOC100316870	0.13	-1.3	0.01	-1.3	0.00	-1.5
A_55_P2171206	NM_013592	Matn4	0.47	-1.3	0.06	-1.4	0.02	-1.5
A_55_P1977653	NM_001081390	Palld	0.84	-1.1	0.47	-1.2	0.04	-1.5
A_55_P2050192	AK142726	ND5	0.97	-1.0	0.13	-1.2	0.00	-1.5
A_52_P286360	NM_008769	Otc	0.98	-1.0	0.79	-1.1	0.01	-1.5
A_55_P2029061	NM_011612	Tnfrsf9	0.88	-1.1	0.49	-1.2	0.04	-1.5
A_30_P01022386			0.83	-1.2	0.58	-1.2	0.03	-1.5
A_51_P189442	NM_011996	Adh4	0.55	-1.3	0.40	-1.2	0.03	-1.5
A_55_P2125947	NM_026212	Agpat2	0.57	-1.2	0.00	-1.4	0.01	-1.5
A_51_P236324	NM_028812	Gtf2e1	0.66	-1.2	0.06	-1.3	0.00	-1.5
A_55_P2047188	NM_010197	Fgf1	0.86	-1.1	0.13	-1.3	0.00	-1.5
A_55_P2183208	NM_001045532	Prl2c1	0.15	-1.3	0.00	-1.4	0.00	-1.5
A_52_P413947	NM_010840	Mthfr	0.74	-1.2	0.03	-1.6	0.11	-1.5
A_55_P2189893	AK042233	A630073K07Rik	0.70	-1.2	0.27	-1.3	0.04	-1.5
A_51_P483544	NM_013930	Aass	0.92	-1.1	0.76	-1.1	0.00	-1.6
A_52_P614777	NM_032400	Sucnr1	0.98	-1.0	0.79	-1.1	0.03	-1.6

A_51_P257885	NM_175217	Mmd2	0.88	-1.1	0.76	-1.2	0.04	-1.6
A_55_P1959973	NM_175539	Dcaf12l2	0.72	-1.1	0.19	-1.2	0.00	-1.6
A_55_P1977776	NR_003280	LOC790956	0.12	-1.5	0.36	-1.3	0.03	-1.6
A_51_P228574	NM_146214	Tat	0.97	-1.0	0.57	-1.2	0.02	-1.6
A_55_P1993049	XM_001478943	Gm4076	0.94	-1.1	0.00	-1.3	0.00	-1.6
A_51_P174645	NM_133768	Asl	0.77	-1.2	0.73	-1.1	0.00	-1.6
A_30_P01021789			0.80	1.2	0.62	-1.2	0.04	-1.6
A_30_P01030307			0.05	-1.6	0.00	-1.7	0.00	-1.6
A_51_P326685	NM_176920	Lrtm1	0.84	-1.2	0.20	-1.4	0.04	-1.6
A_55_P2039429	NM_007860	Dio1	0.66	-1.4	0.02	-2.0	0.13	-1.6
A_55_P2010672	NM_010623	Kif17	0.76	-1.2	0.14	-1.4	0.02	-1.6
A_55_P2169259	NM_019792	Cyp3a25	0.91	-1.1	0.35	-1.3	0.03	-1.6
A_30_P01032670			0.12	-1.4	0.02	-1.4	0.00	-1.6
A_55_P2142222	NM_001034870	Serpina3h	1.00	1.0	0.02	-1.7	0.06	-1.6
A_30_P01027977			0.91	-1.1	0.39	-1.3	0.03	-1.6
A_55_P2017998			0.22	-1.5	0.00	-2.0	0.05	-1.6
A_66_P106611	NM_008137	Gna14	0.91	-1.1	0.13	-1.4	0.01	-1.7
A_55_P2077783	NR_003964	Tubb2a-ps2	0.27	-1.4	0.00	-1.7	0.02	-1.7
A_55_P2000938	BC086781	Ahcy	0.88	-1.1	0.57	-1.2	0.01	-1.7
A_55_P2160686	NM_009366	Tsc22d1	0.84	-1.2	0.08	-1.6	0.03	-1.7
A_51_P341918	NM_009366	Tsc22d1	0.80	-1.2	0.00	-1.7	0.03	-1.7
A_66_P124715	NM_011145	Ppard	0.57	-1.4	0.07	-1.6	0.04	-1.7
A_51_P440743	NM_009886	Celsr1	0.48	-1.4	0.01	-1.7	0.02	-1.7
A_55_P2035320	NM_017373	Nfil3	0.32	-1.5	0.03	-1.7	0.03	-1.7
A_55_P1989061	NM_001077364	Tsc22d3	0.18	-1.6	0.03	-1.6	0.01	-1.7
A_55_P2146655	XM_001472967	Gm2262	0.05	-1.6	0.00	-1.7	0.00	-1.7
A_55_P1978770	XM_973294	E030018B13Rik	0.65	-1.3	0.03	-1.7	0.03	-1.7
A_55_P1971674	NM_001141983	Golga7b	0.88	-1.1	0.77	-1.2	0.00	-1.7
A_55_P2142724	XM_001472454	Gm16483	0.82	-1.2	0.27	-1.3	0.02	-1.7
A_51_P117881	NM_153069	Leap2	0.63	-1.3	0.16	-1.5	0.02	-1.7
A_55_P2003483	NM_138595	Gldc	0.76	-1.2	0.60	-1.2	0.00	-1.7
A_55_P2086433	NM_145209	Oasl1	0.00	-1.5	0.00	-1.8	0.00	-1.7
A_30_P01019010			0.55	-1.3	0.03	-1.5	0.00	-1.7
A_52_P412506	NM_008649	Mup5	0.99	-1.0	0.95	-1.0	0.00	-1.7
A_51_P327451	NM_009653	Alas2	0.96	-1.1	0.78	-1.1	0.00	-1.8
A_30_P01021387			0.00	-1.6	0.01	-1.8	0.00	-1.8
A_30_P01018444			0.44	1.4	0.79	-1.1	0.01	-1.8
A_51_P490023	NM_009450	Tubb2a	0.26	-1.7	0.04	-1.9	0.07	-1.8
A_51_P316935	NM_145980	8430408G22Rik	0.32	-1.5	0.02	-1.8	0.02	-1.9
A_55_P2057430	NM_027340	Lipn	0.99	1.0	0.50	-1.3	0.02	-1.9
A_55_P2076196	NM_001134644	CU041261.1	0.98	1.0	0.74	-1.2	0.01	-1.9
A_51_P334942	NM_013467	Aldh1a1	0.23	-1.4	0.00	-1.6	0.00	-1.9
A_55_P2162160	NM_009672	Anp32a	0.13	-1.7	0.36	-1.4	0.03	-1.9
A_55_P2033321	AW012817		0.97	-1.1	0.85	-1.1	0.00	-2.0
A_30_P01017959			0.99	1.0	0.53	-1.4	0.01	-2.1
A_51_P268529	NM_144942	Csad	0.14	-1.6	0.00	-1.9	0.00	-2.1
A_30_P01024647			0.67	1.4	0.52	-1.4	0.01	-2.1
A_30_P01030756			0.41	-1.7	0.16	-1.8	0.04	-2.1
A_55_P2043083	NM_177406	Cyp4a12a	0.97	-1.1	0.98	-1.0	0.01	-2.1

A_52_P402127	NM_001126319	Mup9	0.74	1.4	0.98	-1.0	0.03	-2.1
A_55_P2116674			0.81	1.2	0.89	-1.1	0.00	-2.2
A_55_P2113587			0.92	1.1	0.73	-1.2	0.00	-2.3
A_52_P327156	NR_027970	0610008F07Rik	0.40	-1.5	0.10	-1.6	0.01	-2.3
A_55_P2076832	NM_146150	Nrd1	0.15	-2.1	0.14	-1.9	0.02	-2.3
A_55_P2111980	NM_008295	Hsd3b5	0.95	-1.1	0.98	-1.0	0.00	-2.3
A_51_P403477	NM_007860	Dio1	0.87	-1.2	0.02	-2.2	0.01	-2.4
A_55_P2065449	NM_152895	Kdm5b	0.22	-2.3	0.16	-2.1	0.04	-2.5
A_55_P2103703	XM_001475400	LOC635091	0.58	1.5	0.93	-1.1	0.01	-2.6
A_51_P501844	NM_175475	Cyp26b1	0.00	-3.5	0.07	-2.0	0.01	-2.6
A_55_P2046671	XM_001477211	CU104690.1	0.72	1.3	0.57	-1.3	0.00	-2.6
A_55_P2075127	NM_011037	Pax2	0.96	1.1	0.93	-1.1	0.00	-2.8
A_55_P2055423	XM_485799	Nat8b	0.85	-1.3	0.90	1.2	0.02	-2.8
A_55_P2061104	NM_001081285	Mup6	0.99	1.0	0.25	-1.5	0.00	-4.6
A_51_P493987	NM_021509	Moxd1	0.88	-1.4	0.00	-6.9	0.00	-7.1

3.2.3 BghiP Liver. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 6.25, 12.5, and 25 mg/kg-bw/day benzo(ghi)perylene in the liver. The list is sorted from highest to lowest fold change in the 25 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	6.25 mg/kg-bw/day		12.5 mg/kg-bw/day		25 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_51_P137452	NM_013809	Cyp2g1	1.00	1.3	0.00	3.2	0.16	2.2
A_55_P1992849	NM_013462	Adrb3	0.57	1.6	0.95	1.3	0.01	2.0
A_51_P267933	NM_175692	Snhg11	1.00	1.4	0.46	1.7	0.04	1.9
A_51_P478098	NM_001113416	Epb4.115	1.00	1.2	0.97	1.2	0.03	1.8
A_51_P137604	NM_007995	Fcna	1.00	1.2	0.96	1.3	0.04	1.8
A_51_P478952	NM_133898	N4bp2l1	1.00	1.3	0.93	1.4	0.03	1.8
A_55_P2157872	NM_001079695	Sfrs5	1.00	1.2	0.97	1.3	0.02	1.8
A_55_P2105685	NM_013462	Adrb3	0.38	1.6	0.97	1.3	0.01	1.7
A_55_P2116978	NM_010889	Neb	0.98	1.3	0.71	1.4	0.00	1.7
A_52_P18068	NM_178935	4932441K18Rik	1.00	1.2	0.88	1.2	0.01	1.6
A_51_P108581	NM_177078	Adrbk2	1.00	1.1	0.91	1.2	0.01	1.6
A_55_P2109479	NM_001001180	BC066028	1.00	1.2	0.54	1.4	0.04	1.6
A_51_P241995	NM_016919	Col5a3	0.48	1.5	0.69	1.4	0.03	1.6
A_55_P1967168	NM_172668	Lrp4	1.00	1.2	0.77	1.3	0.02	1.6
A_52_P140881	NM_177615	Slc26a10	0.87	1.3	0.48	1.4	0.01	1.6
A_55_P1972527	NM_178935	4932441K18Rik	1.00	1.2	0.82	1.2	0.00	1.5
A_52_P373893	AK154578	Acvr1b	0.66	1.2	0.39	1.3	0.00	1.5
A_55_P1982291	NM_009899	Ciqa1	1.00	1.2	0.88	1.3	0.01	1.5
A_52_P331212	NM_026493	Cspp1	1.00	1.1	0.48	1.3	0.00	1.5
A_52_P217710	NM_008056	Fzd6	1.00	1.2	0.97	1.2	0.01	1.5
A_51_P176387	NM_207659	Hook3	1.00	1.1	0.99	1.1	0.03	1.5
A_52_P550147	AJ584850	Sned1	0.43	1.3	0.23	1.3	0.00	1.5
A_51_P264634	NM_009261	Strbp	1.00	1.1	0.94	1.2	0.00	1.5
A_55_P1962747	NM_207105	H2-Ab1	1.00	1.1	0.00	1.8	0.31	1.4

A_55_P2024953	NM_001081278	Tbc1d4	0.00	1.5	1.00	1.0	0.23	1.3
A_51_P470715	NM_009895	Cish	0.00	-5.1	1.00	1.1	0.95	1.2
A_55_P1979973	NM_028778	Nuak2	0.00	1.5	0.26	1.3	0.37	1.2
A_52_P381430	NM_001081278	Tbc1d4	0.00	1.7	1.00	1.0	0.55	1.2
A_52_P455404	NM_025922	Itpa	1.00	1.4	0.00	-2.9	0.94	1.1
A_55_P1963483	NM_030559	Vps16	1.00	1.3	0.00	-3.4	0.91	1.1
A_52_P528600	NM_008245	Hhex	0.00	-2.3	0.97	-1.4	0.78	-1.2
A_30_P01018959			1.00	-1.0	0.00	-1.6	0.11	-1.4
A_52_P432580	XM_001473421	LOC100044968	0.00	-2.2	0.97	-1.3	0.49	-1.4
A_30_P01028215			1.00	-1.1	0.77	-1.3	0.04	-1.5
A_52_P272534			1.00	-1.1	0.89	-1.2	0.00	-1.5
A_30_P01025659			1.00	-1.1	0.81	-1.3	0.04	-1.5
A_30_P01028735			1.00	-1.1	0.77	-1.3	0.00	-1.5
A_30_P01030969			1.00	-1.2	0.96	-1.2	0.02	-1.5
A_30_P01021097			1.00	-1.2	1.00	-1.0	0.01	-1.5
A_30_P01031014			1.00	-1.0	0.54	-1.3	0.01	-1.5
A_30_P01027388			1.00	-1.1	0.88	-1.3	0.03	-1.5
A_30_P01019829			1.00	-1.1	0.90	-1.2	0.02	-1.5
A_30_P01021078			1.00	-1.1	0.73	-1.3	0.01	-1.5
A_55_P2345116	AK051328	1700109K24Rik	1.00	-1.2	0.82	-1.3	0.02	-1.5
A_55_P2402134	AK078921	9130020K20Rik	1.00	-1.2	0.69	-1.2	0.00	-1.5
A_55_P2225470	AK039069	A230092J17Rik	1.00	-1.2	0.82	-1.3	0.03	-1.5
A_55_P2375121	AK045926	AI225934	1.00	-1.1	0.64	-1.3	0.00	-1.5
A_51_P400453	NM_177096	B430203M17Rik	1.00	-1.1	0.79	-1.2	0.01	-1.5
A_55_P2076797	NM_007840	Ddx5	1.00	-1.0	0.96	-1.2	0.00	-1.5
A_55_P2076984	NM_134082	Farp1	1.00	1.0	0.98	-1.1	0.01	-1.5
A_55_P2026340	NM_001161765	Fmo5	1.00	-1.1	0.79	-1.3	0.04	-1.5
A_55_P1955715	NM_001164689	Gm6710	1.00	-1.2	0.97	-1.2	0.02	-1.5
A_51_P239750	NM_008380	Inhba	0.74	-1.3	0.53	-1.3	0.01	-1.5
A_55_P1957593	NM_023547	Ino80b	1.00	-1.1	0.89	-1.2	0.01	-1.5
A_55_P2129826	NM_178641	Inpp5f	1.00	-1.0	0.80	-1.3	0.00	-1.5
A_55_P2408415	NR_001461	Kcnq1ot1	1.00	1.0	0.97	-1.1	0.00	-1.5
A_55_P2001238	NM_026313	Luc7l3	1.00	-1.1	0.71	-1.3	0.00	-1.5
A_55_P2081388	NM_008575	Mdm4	1.00	-1.2	0.63	-1.4	0.04	-1.5
A_51_P150521	NM_146035	Mgat2	1.00	-1.1	0.97	-1.1	0.00	-1.5
A_55_P2027906	NM_021552	Nsa2	1.00	-1.0	0.97	-1.2	0.00	-1.5
A_51_P503192	NM_175402	Rbm15b	1.00	-1.1	0.97	-1.2	0.02	-1.5
A_52_P393306	NM_009222	Snap23	1.00	-1.1	0.92	-1.2	0.01	-1.5
A_51_P328968	NM_172586	Zfp322a	1.00	-1.2	0.84	-1.2	0.00	-1.5
A_30_P01018686			1.00	-1.1	0.69	-1.3	0.02	-1.6
A_30_P01018620			1.00	-1.2	0.55	-1.4	0.00	-1.6
A_30_P01019815			1.00	-1.1	0.74	-1.3	0.01	-1.6
A_30_P01026106			1.00	-1.1	0.69	-1.4	0.02	-1.6
A_30_P01029653			1.00	-1.2	0.80	-1.4	0.03	-1.6
A_30_P01018010			1.00	-1.1	0.82	-1.3	0.01	-1.6
A_30_P01030038			1.00	-1.0	0.97	-1.2	0.01	-1.6
A_30_P01031627			1.00	-1.2	0.81	-1.3	0.00	-1.6
A_30_P01027833			1.00	-1.2	0.63	-1.4	0.03	-1.6
A_55_P2169124	AK040781		1.00	-1.0	0.97	-1.2	0.00	-1.6

A_30_P01021775			1.00	-1.1	0.57	-1.4	0.03	-1.6
A_30_P01024081			1.00	-1.1	0.86	-1.3	0.04	-1.6
A_30_P01030943			1.00	-1.1	0.77	-1.4	0.02	-1.6
A_55_P2244677	AK032738	6720422M22Rik	1.00	-1.2	0.89	-1.3	0.03	-1.6
A_55_P2189893	AK042233	A630073K07Rik	1.00	-1.2	0.97	-1.3	0.03	-1.6
A_55_P2430472	NM_011805	Dido1	1.00	1.0	0.77	-1.3	0.00	-1.6
A_55_P2076418	NM_001110327	Dmtf1	1.00	-1.1	0.98	-1.2	0.00	-1.6
A_66_P140533	XM_001478088	Gm3813	1.00	-1.2	0.87	-1.3	0.00	-1.6
A_52_P86693	NM_026790	Ifi2711	0.97	-1.3	0.50	-1.4	0.00	-1.6
A_55_P2104798	XM_001480269	LOC100044040	1.00	1.0	0.96	-1.2	0.00	-1.6
A_55_P2077866	NM_010918	Nktr	1.00	-1.0	0.97	-1.2	0.01	-1.6
A_52_P134023	NM_153100	Rtp3	1.00	-1.0	0.26	-1.6	0.01	-1.6
A_55_P2462940	NM_001081008	Taf1	1.00	-1.1	0.97	-1.1	0.00	-1.6
A_55_P2123716	NR_002321	Tug1	1.00	-1.1	0.99	-1.1	0.00	-1.6
A_55_P1986743			1.00	-1.2	0.46	-1.4	0.00	-1.7
A_30_P01028562			1.00	-1.2	0.63	-1.4	0.00	-1.7
A_55_P1977875	NM_176849	Arglu1	1.00	-1.1	0.61	-1.3	0.00	-1.7
A_55_P2148400	XM_001472970	Gm2264	1.00	1.0	0.97	-1.3	0.04	-1.7
A_55_P1962602	XM_001474429	Gm2690	1.00	-1.0	0.92	-1.3	0.02	-1.7
A_55_P1987811	XM_001474233	Gm2724	1.00	1.1	0.59	-1.5	0.03	-1.7
A_55_P2149821	NM_026989	Sfrs11	1.00	1.0	0.96	-1.2	0.00	-1.7
A_55_P2006662	BC124559		1.00	-1.2	0.97	-1.2	0.00	-1.8
A_30_P01021604			1.00	-1.2	0.60	-1.4	0.02	-1.8
A_55_P1962603	NM_009946	Cplx2	1.00	-1.1	0.91	-1.3	0.00	-1.8
A_55_P2430221	NM_029389	Fam35a	1.00	1.0	0.94	-1.3	0.00	-1.8
A_55_P2201454	AK142062	2310079F09Rik	1.00	-1.2	0.43	-1.5	0.00	-1.9
A_30_P01022120			1.00	-1.3	0.99	-1.1	0.01	-2.0
A_51_P255295	NM_013485	C9	1.00	-1.1	0.48	-1.7	0.02	-2.0
A_30_P01033600			0.00	-3.5	0.38	-2.8	0.31	-2.1

3.2.4 BkF Liver. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 25, 50, and 100 mg/kg-bw/day benzo(k)fluoranthene in the liver. The list is sorted from highest to lowest fold change in the 100 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	25 mg/kg-bw/day		50 mg/kg-bw/day		100 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_51_P269404	NM_008030	Fmo3	1.00	1.4	0.10	10.6	0.00	46.0
A_51_P279693	NM_009992	Cyp1a1	1.00	5.0	0.00	38.8	0.00	43.7
A_66_P119518	NM_017379	Tuba8	1.00	2.8	0.00	6.7	0.00	9.9
A_55_P1998471	NM_009114	S100a9	1.00	1.6	0.05	3.6	0.00	8.0
A_51_P255456	NM_009994	Cyp1b1	1.00	1.8	0.13	3.8	0.02	7.3
A_55_P1988703	NM_146896	Olf1203	1.00	1.0	1.00	1.0	0.00	6.2
A_51_P279437	NM_029662	Mfsd2a	1.00	1.7	0.25	2.7	0.03	5.8
A_51_P375146	NM_007643	Cd36	1.00	3.0	0.10	3.1	0.02	5.7
A_52_P366803	NM_177380	Cyp3a44	1.00	-1.3	1.00	-1.0	0.03	5.6
A_51_P229893	NM_021445	Cts6	1.00	1.0	0.99	1.0	0.04	5.2

A_51_P153063	NM_029310	Fabp12	1.00	1.5	0.17	2.6	0.03	4.8
A_51_P365516	NM_009258	Spink3	1.00	-1.2	0.95	-1.2	0.00	4.3
A_51_P209183	NM_019568	Cxcl14	0.69	2.3	0.00	3.2	0.00	4.0
A_52_P343306	NM_010378	H2-Aa	1.00	2.3	0.00	3.9	0.01	3.9
A_51_P164296	NM_021475	Adamdec1	0.15	2.7	0.00	5.0	0.00	3.8
A_51_P284608	NM_001042605	Cd74	0.95	2.2	0.00	3.6	0.00	3.8
A_55_P2185840	NM_010924	Nnmt	1.00	1.2	0.03	2.5	0.02	3.7
A_55_P2032714	NM_010210	Fhit	1.00	1.5	0.27	2.0	0.03	3.6
A_55_P1952517	NM_001111296	Sult2a1	1.00	1.1	0.99	-1.0	0.03	3.5
A_66_P114333	NM_205823	Tlr12	0.52	1.7	0.00	3.2	0.00	3.3
A_55_P1983754	NM_025557	Pcp4l1	0.95	2.3	0.00	2.9	0.03	2.9
A_55_P1985788	NM_198092	Usp2	1.00	1.0	0.01	2.7	0.01	2.9
A_51_P335569	NM_030687	Slco1a4	1.00	-1.2	0.83	1.2	0.01	2.9
A_52_P375312	NM_001005421	Amica1	1.00	1.4	0.00	2.2	0.00	2.9
A_55_P2085779	NM_145449	Ifi27l2b	1.00	-1.3	0.75	1.4	0.03	2.8
A_51_P254425	NM_009644	Ahrr	1.00	1.4	0.15	2.2	0.03	2.8
A_55_P2136847	NM_001077514	Slc1a2	1.00	1.5	0.01	2.6	0.01	2.8
A_55_P2035018	NM_020001	Clec4n	1.00	1.5	0.00	2.7	0.00	2.8
A_51_P461665	NM_008599	Cxcl9	1.00	1.1	0.17	2.0	0.04	2.6
A_55_P1974645	NM_009849	Entpd2	1.00	1.5	0.00	2.0	0.00	2.6
A_55_P2097219	NM_010259	Gbp1	1.00	1.4	0.00	2.3	0.00	2.6
A_51_P464918	NM_019453	Mefv	0.84	1.7	0.00	2.4	0.00	2.6
A_55_P2131238	NM_153392	Ttc39a	0.39	1.8	0.00	2.5	0.00	2.6
A_51_P278868	NM_010387	H2-DMb1	1.00	1.5	0.02	2.4	0.03	2.4
A_51_P164835	NM_008909	Ppl	1.00	1.0	0.21	1.7	0.02	2.4
A_55_P2044653	NM_009999	Cyp2b10	1.00	1.5	0.91	1.2	0.02	2.4
A_51_P455647	NM_009801	Car2	1.00	1.5	0.00	2.6	0.01	2.4
A_55_P2007964	NM_009987	Cx3cr1	0.69	2.1	0.00	3.3	0.00	2.4
A_51_P144531	NM_172776	D630002G06Rik	1.00	-1.1	0.92	1.1	0.00	2.4
A_51_P146753	NM_007781	Csf2rb2	1.00	1.6	0.00	2.0	0.00	2.4
A_55_P2018417	NM_001163645	Osbpl3	0.00	2.2	0.00	2.8	0.00	2.3
A_55_P1963508	NM_001004148	Slc13a5	1.00	1.3	0.09	1.9	0.04	2.3
A_52_P515036	NM_016865	Htatip2	1.00	1.5	0.35	1.5	0.03	2.3
A_55_P1953387	NM_010634	Fabp5	1.00	1.9	0.00	2.8	0.08	2.3
A_55_P2150976	XM_886827	Fabp5l2	0.95	2.1	0.01	2.9	0.06	2.3
A_51_P255682	NM_008594	Mfge8	1.00	1.4	0.46	1.5	0.04	2.2
A_51_P269792	NM_009014	Rad51l1	1.00	1.2	0.59	1.4	0.03	2.2
A_66_P111562	NM_007631	Ccnd1	1.00	1.1	0.87	1.2	0.00	2.2
A_55_P2064771	NM_010741	Ly6c1	0.00	1.7	0.00	2.1	0.00	2.1
A_51_P151732	NM_019645	Pkp1	1.00	1.2	0.36	1.5	0.03	2.1
A_55_P2127179	XM_142052	Gm379	1.00	1.6	0.07	1.8	0.03	2.1
A_55_P2146560	XM_918601	LOC641240	0.75	2.0	0.00	2.3	0.03	2.1
A_55_P2140107	NM_009995	Cyp21a1	1.00	1.6	0.46	1.4	0.02	2.1
A_51_P105124	NM_183168	P2ry6	1.00	1.3	0.00	2.0	0.02	2.1
A_51_P124535	NM_008590	Mest	1.00	1.5	0.10	1.5	0.00	2.1
A_51_P265495	NM_010738	Ly6a	1.00	1.8	0.00	2.3	0.07	2.1
A_55_P1953169	NM_011315	Saa3	1.00	1.4	0.01	3.4	0.25	2.1
A_52_P537545	NM_021491	Smpd3	1.00	1.4	0.24	1.5	0.03	2.0
A_51_P304109	NM_010003	Cyp2c39	1.00	1.0	0.79	1.2	0.01	2.0

A_51_P172054	NM_019521	Gas6	1.00	1.7	0.00	2.0	0.01	2.0
A_51_P377452	NM_008677	Ncf4	1.00	1.3	0.03	1.9	0.01	2.0
A_55_P1983773	NM_001012273	Birc5	1.00	-1.3	0.41	1.3	0.00	2.0
A_51_P196844	NM_027881	Osbpl3	0.45	1.8	0.00	2.6	0.00	2.0
A_55_P2054420	NM_013685	Tcf4	0.00	1.8	0.00	2.0	0.00	1.9
A_51_P427516	NM_019576	Thsd1	1.00	1.3	0.17	1.7	0.04	1.9
A_51_P151126	NM_013706	Cd52	1.00	1.4	0.01	1.9	0.04	1.9
A_55_P1967168	NM_172668	Lrp4	1.00	1.4	0.04	1.7	0.04	1.9
A_51_P515605	NM_009930	Col3a1	1.00	1.2	0.00	2.1	0.04	1.9
A_55_P2142326	XM_923315		1.00	-1.0	0.71	1.3	0.03	1.9
A_55_P2004099	XM_001477458	Gm9933	1.00	1.2	0.00	1.8	0.03	1.9
A_51_P421140	NM_026473	Tubb6	1.00	1.5	0.14	1.6	0.03	1.9
A_51_P283004	NM_012033	Tinag	1.00	1.1	0.29	1.4	0.02	1.9
A_55_P2110512	NM_201529	Lmo7	1.00	1.2	0.14	1.5	0.01	1.9
A_55_P2033041	XM_001471956	LOC100038947	1.00	1.1	0.00	1.7	0.00	1.9
A_51_P291501	NM_001081062	Ccno	1.00	1.3	0.02	1.7	0.00	1.9
A_55_P1972720	NM_013872	Pmm1	1.00	1.3	0.01	1.7	0.00	1.9
A_55_P2156731	NM_010382	H2-Eb1	0.79	1.9	0.00	1.9	0.00	1.9
A_55_P2001250	NM_153107	Cpz	1.00	1.3	0.04	1.9	0.08	1.9
A_55_P2004732	NM_153392	Ttc39a	1.00	1.4	0.02	1.9	0.07	1.9
A_55_P2005470	NM_029568	Mfap4	1.00	1.3	0.00	3.0	0.15	1.9
A_52_P222230	XM_001476722		0.95	1.6	0.14	1.5	0.03	1.8
A_52_P228236	NM_011638	Tfrc	1.00	1.2	0.66	1.2	0.03	1.8
A_55_P1996946	NM_023223	Cdc20	1.00	-1.2	0.77	1.2	0.03	1.8
A_55_P2110513	NM_201529	Lmo7	1.00	1.2	0.22	1.4	0.03	1.8
A_51_P454196	NM_028182	Sh2d4a	1.00	1.1	0.23	1.4	0.02	1.8
A_51_P114634	NM_173405	Amz1	0.88	1.5	0.00	2.1	0.01	1.8
A_55_P1962747	NM_207105	H2-Ab1	0.65	1.8	0.03	1.9	0.07	1.8
A_55_P2161170	NM_146032	Srp68	0.95	1.9	0.02	2.2	0.10	1.8
A_55_P2122841			1.00	1.7	0.00	2.2	0.10	1.8
A_51_P411271	NM_010902	Nfe2l2	1.00	1.0	0.09	1.4	0.01	1.7
A_55_P2109505	XM_890094	Gm6594	1.00	1.2	0.02	1.4	0.00	1.7
A_55_P2119985	NM_130862	Baiap2	1.00	1.2	0.13	1.4	0.00	1.7
A_51_P463765	NM_011595	Timp3	1.00	1.4	0.00	1.5	0.00	1.7
A_51_P246653	NM_020008	Clec7a	1.00	1.1	0.00	1.7	0.06	1.7
A_51_P247694	NM_173036	Gpr97	1.00	1.7	0.04	1.8	0.11	1.7
A_52_P21486	NM_183257	Hamp2	1.00	1.5	0.03	1.8	0.12	1.7
A_55_P2124736	NM_181277	Col14a1	1.00	1.2	0.00	2.0	0.14	1.7
A_51_P359603	NM_013566	Itgb7	1.00	1.4	0.01	2.1	0.16	1.7
A_55_P2023637	NM_021400	Prg4	1.00	-1.0	0.00	2.1	0.14	1.7
A_55_P1957413	NM_019391	Lsp1	1.00	1.4	0.00	2.2	0.16	1.7
A_52_P642488	NM_008430	Kcnk1	0.85	2.0	0.00	2.9	0.23	1.7
A_55_P1960556	NM_015729	Acox1	0.00	2.2	0.00	2.2	0.07	1.6
A_51_P261517	NM_011662	Tyrobp	1.00	1.0	0.11	1.5	0.04	1.6
A_51_P436727	NM_177231	Arrb1	1.00	1.1	0.46	1.2	0.04	1.6
A_51_P498631	NM_018769	Dfna5	1.00	1.4	0.27	1.4	0.04	1.6
A_55_P2116111	NM_172911	D8Ertd82e	1.00	1.3	0.04	1.4	0.03	1.6
A_55_P1965154	NM_025565	Spc25	1.00	-1.0	0.61	1.2	0.03	1.6
A_51_P187750	NM_153408	Neurl3	0.98	1.4	0.00	1.6	0.03	1.6

A_55_P2081530	NM_080559	Sh3bgrl3	1.00	1.0	0.02	1.5	0.03	1.6
A_55_P2148062	NM_175391	Apol7c	1.00	1.2	0.00	1.7	0.03	1.6
A_55_P2129348	NM_153510	Pilra	1.00	1.1	0.00	1.5	0.02	1.6
A_55_P2048348	NM_025446	Aig1	1.00	-1.1	0.73	1.1	0.01	1.6
A_66_P125722	NM_025797	Cyb5	1.00	1.3	0.01	1.5	0.01	1.6
A_55_P2004452	NM_025703	Tceal8	1.00	1.3	0.00	1.5	0.01	1.6
A_51_P184484	NM_008607	Mmp13	1.00	1.3	0.02	1.5	0.00	1.6
A_55_P1955412	NM_011393	Slc1a2	1.00	1.2	0.00	1.5	0.00	1.6
A_55_P2157023	NM_011441	Sox17	1.00	1.0	0.00	1.6	0.00	1.6
A_51_P146970	NM_145831	Dmrt2	1.00	1.4	0.00	1.8	0.14	1.6
A_51_P121031	NM_175188	41334.0	1.00	1.0	0.02	1.5	0.05	1.5
A_55_P2130885	NM_008552	Mas1	1.00	1.1	0.40	1.3	0.04	1.5
A_52_P417825	NM_145950	Osgin2	1.00	1.2	0.26	1.3	0.04	1.5
A_52_P392674	NM_019736	Acot9	1.00	1.0	0.68	1.2	0.04	1.5
A_55_P2042823	NM_001145859	Sh3bp2	1.00	1.2	0.01	1.5	0.04	1.5
A_55_P2080042	NR_003629	BB287469	1.00	1.2	0.94	1.1	0.04	1.5
A_52_P465129	XM_001473647	LOC100045212	1.00	-1.0	0.01	1.5	0.04	1.5
A_55_P2066559	NM_001168693	Pp11r	0.23	1.5	0.00	1.6	0.03	1.5
A_51_P224575	NM_010322	Gnpat	1.00	1.3	0.65	1.2	0.03	1.5
A_51_P215438	NM_011172	Prodh	0.94	1.4	0.01	1.5	0.03	1.5
A_55_P2028496	XM_001472085	Hmgn2l6	1.00	1.2	0.14	1.3	0.03	1.5
A_51_P320022	NM_009728	Atp10a	1.00	1.2	0.19	1.3	0.03	1.5
A_55_P2074631	NM_007755	Cpeb1	1.00	1.1	0.02	1.5	0.02	1.5
A_30_P01029371			1.00	-1.1	0.87	1.1	0.02	1.5
A_55_P2128821	NM_019979	Selk	1.00	1.3	0.11	1.4	0.02	1.5
A_55_P2011380	NM_009612	Acvr11	1.00	1.2	0.00	1.6	0.01	1.5
A_51_P400543	NM_019467	Aif1	1.00	1.1	0.06	1.4	0.00	1.5
A_51_P355753	NM_010430	Hic1	0.78	1.3	0.00	1.5	0.00	1.5
A_55_P1987261	NM_172691	B230312A22Rik	1.00	1.1	0.00	1.4	0.00	1.5
A_55_P1968193	NM_010210	Fhit	1.00	1.4	0.00	1.4	0.00	1.5
A_52_P393314	NM_011027	P2rx7	1.00	1.1	0.03	1.5	0.12	1.5
A_55_P1983044	NM_001081687	Gm5150	1.00	1.0	0.03	1.6	0.12	1.5
A_52_P318361	NM_145603	Ces2	1.00	1.6	0.00	1.6	0.12	1.5
A_55_P2109479	NM_001001180	BC066028	1.00	1.4	0.03	1.7	0.09	1.5
A_55_P2158946	NM_008481	Lama2	1.00	1.2	0.00	1.7	0.08	1.5
A_55_P2144526	NM_001080381	Fam65b	1.00	1.5	0.03	2.0	0.37	1.5
A_55_P1963960	XM_918548	LOC641201	1.00	1.1	0.03	1.5	0.25	1.4
A_52_P10041	NM_009658	Akr1b3	1.00	1.2	0.02	1.5	0.14	1.4
A_52_P52618	NM_007780	Csf2rb	1.00	1.2	0.02	1.5	0.14	1.4
A_55_P2129658	NM_008542	Smad6	1.00	1.2	0.01	1.5	0.03	1.4
A_51_P256246	NM_025359	Tspan13	1.00	1.3	0.02	1.7	0.33	1.4
A_51_P299805	NM_027872	Slc46a3	0.69	1.4	0.00	1.7	0.02	1.4
A_55_P2116978	NM_010889	Neb	1.00	1.3	0.03	1.8	0.52	1.4
A_55_P2029106	NM_138313	Bmf	1.00	1.4	0.04	1.9	0.51	1.4
A_51_P404193	NM_022435	Sp5	1.00	1.2	0.02	2.3	0.68	1.4
A_55_P2181419	NM_013685	Tcf4	0.85	1.4	0.03	1.5	0.25	1.3
A_55_P2130388	NM_138315	Mical1	1.00	1.2	0.03	1.5	0.29	1.3
A_55_P2034663	NM_007781	Csf2rb2	1.00	1.2	0.00	1.5	0.14	1.3
A_55_P2051322	NM_025994	Efh2	1.00	1.0	0.00	1.6	0.40	1.3

A_55_P2137941	NM_052823	Fxyd2	1.00	1.2	0.03	1.5	0.57	1.2
A_52_P213696	NM_027402	Fndc5	1.00	1.1	0.04	1.6	0.78	1.1
A_55_P2069935	NM_052823	Fxyd2	1.00	1.2	0.02	1.7	0.71	1.1
A_55_P2099742	NM_011888	Ccl19	1.00	1.5	0.00	2.0	0.94	1.1
A_52_P650453	NM_011463	Spink4	1.00	1.0	0.04	3.4	0.95	1.1
A_55_P2086089	XM_111973	Smek3	0.00	1.5	0.56	1.2	0.89	1.0
A_66_P113892	NM_001162998	1110017F19Rik	1.00	1.2	0.00	1.6	0.95	-1.0
A_51_P156955	NM_013459	Cfd	1.00	1.2	0.00	7.1	1.00	-1.0
A_55_P1999838	NM_007749	Cox7c	1.00	-1.0	0.00	-1.5	0.67	-1.2
A_55_P2115220	NM_001037932	Gm11437	1.00	-1.2	0.00	-1.6	0.71	-1.3
A_55_P2003483	NM_138595	Gldc	1.00	-1.2	0.00	-1.6	0.32	-1.3
A_51_P434101	NM_022331	Herpud1	0.95	-1.5	0.00	-1.5	0.32	-1.3
A_66_P120472	NM_021319	Pglyrp2	0.69	-1.5	0.00	-1.8	0.10	-1.4
A_55_P2279035	AK018519	9030419F21Rik	1.00	-1.4	0.02	-1.7	0.16	-1.4
A_55_P2293013	NM_133960	Ces6	1.00	-1.2	0.00	-1.5	0.02	-1.4
A_30_P01027623			1.00	-1.3	0.00	-1.5	0.11	-1.4
A_55_P1972018	NM_178208	Hist1h4c	1.00	-1.2	0.08	-1.4	0.04	-1.5
A_66_P136632	NM_019769	1500003O03Rik	1.00	-1.3	0.27	-1.2	0.03	-1.5
A_30_P01021865			1.00	-1.0	0.42	-1.2	0.03	-1.5
A_55_P2105436	AK144920		1.00	-1.0	0.30	-1.2	0.03	-1.5
A_52_P188425	NM_001039077	Prosc	1.00	-1.1	0.13	-1.3	0.03	-1.5
A_30_P01030882			1.00	-1.1	0.24	-1.3	0.03	-1.5
A_55_P2129826	NM_178641	Inpp5f	1.00	-1.0	0.51	-1.2	0.03	-1.5
A_55_P2005859	NM_022014	Fn3k	1.00	-1.1	0.74	-1.1	0.02	-1.5
A_30_P01020465			0.69	-1.4	0.35	-1.2	0.02	-1.5
A_51_P462385	NM_008061	G6pc	1.00	1.1	0.24	-1.3	0.02	-1.5
A_55_P1966537	XM_897326	Gm6358	1.00	-1.1	0.00	-1.4	0.02	-1.5
A_30_P01030745			1.00	-1.0	0.23	-1.2	0.02	-1.5
A_30_P01032777			1.00	-1.1	0.14	-1.3	0.02	-1.5
A_55_P2170514	NM_018754	Sfn	1.00	-1.1	0.62	-1.2	0.01	-1.5
A_55_P2377527	NM_178930	Gbf1	1.00	-1.1	0.30	-1.2	0.00	-1.5
A_55_P2141068	NM_001033259	Ccdc109a	1.00	-1.1	0.00	-1.3	0.00	-1.5
A_30_P01019049			1.00	-1.1	0.00	-1.5	0.00	-1.5
A_30_P01018959			1.00	-1.0	0.00	-1.6	0.00	-1.5
A_51_P145785	NM_007443	Ambp	1.00	-1.1	0.02	-1.4	0.00	-1.5
A_52_P636427	NM_021319	Pglyrp2	1.00	-1.5	0.00	-2.1	0.26	-1.5
A_55_P2053459	NM_001161355	Timd2	1.00	-1.2	0.00	-1.9	0.43	-1.5
A_30_P01021387			1.00	1.1	0.02	-1.7	0.16	-1.5
A_55_P1957198	NM_009693	Apob	1.00	-1.2	0.03	-1.5	0.16	-1.5
A_51_P494825	NM_001081279	Mfnas1	1.00	-1.2	0.76	-1.2	0.04	-1.6
A_55_P2459006	NM_177351	Agphd1	1.00	-1.2	0.26	-1.3	0.04	-1.6
A_55_P2153517	NM_027147	Enho	1.00	-1.4	0.06	-1.5	0.04	-1.6
A_55_P2087647	NM_080289	Grhpr	1.00	-1.1	0.23	-1.4	0.03	-1.6
A_30_P01022310			1.00	1.1	0.34	-1.3	0.03	-1.6
A_30_P01018142			1.00	-1.1	0.03	-1.4	0.01	-1.6
A_55_P2061520			1.00	-1.1	0.23	-1.3	0.01	-1.6
A_30_P01026609			1.00	-1.2	0.48	-1.2	0.00	-1.6
A_30_P01032527			1.00	-1.2	0.51	-1.2	0.00	-1.6
A_51_P368591	NM_053254	Tle6	1.00	-1.2	0.00	-1.4	0.00	-1.6

A_55_P2061645	AK140300	ND6	1.00	-1.1	0.00	-1.6	0.00	-1.6
A_30_P01021237			0.96	-1.4	0.14	-1.4	0.00	-1.6
A_55_P1968362	NM_011599	Tle1	1.00	-1.2	0.00	-1.5	0.00	-1.6
A_51_P153486	NM_018808	Dnajb1	0.61	-2.0	0.00	-2.2	0.20	-1.6
A_55_P2038358	NM_012006	Acot1	1.00	-1.6	0.01	-2.1	0.29	-1.6
A_30_P01029662			1.00	-1.5	0.00	-1.8	0.09	-1.6
A_55_P1985015	NM_033620	Pard3	1.00	-1.5	0.88	-1.1	0.04	-1.7
A_55_P2140118	NM_027455	Qpct	0.85	-1.5	0.17	-1.4	0.03	-1.7
A_51_P469951	NM_080448	Srgap3	1.00	-1.4	0.02	-1.7	0.03	-1.7
A_55_P1968355	NM_011599	Tle1	1.00	-1.2	0.03	-1.5	0.03	-1.7
A_55_P2107528			1.00	-1.2	0.02	-1.5	0.02	-1.7
A_30_P01028952			1.00	-1.2	0.15	-1.4	0.01	-1.7
A_55_P2125633	NM_001102438	Acbd5	1.00	-1.2	0.00	-1.5	0.00	-1.7
A_30_P01031082			1.00	-1.3	0.08	-1.3	0.00	-1.7
A_51_P319070	NM_026159	Retsat	1.00	-1.4	0.00	-1.8	0.00	-1.7
A_51_P175424	NM_011797	Car14	1.00	-1.3	0.01	-2.1	0.19	-1.7
A_55_P2096917	NM_001005423	Mreg	1.00	-1.2	0.49	-1.3	0.04	-1.8
A_51_P196862	NM_027908	Amdhd1	1.00	-1.2	0.16	-1.4	0.01	-1.8
A_55_P2177410	XM_001473808	Gm2814	0.23	-1.8	0.00	-1.6	0.00	-1.8
A_55_P1992582	NM_008256	Hmgcs2	1.00	-1.2	0.00	-1.7	0.00	-1.8
A_55_P2002757	NM_008528	Blnk	1.00	-1.0	0.87	-1.1	0.04	-1.9
A_51_P496432	NM_007981	Acs11	1.00	-1.2	0.36	-1.4	0.03	-1.9
A_51_P463452	NM_007981	Acs11	1.00	-1.4	0.16	-1.5	0.03	-1.9
A_55_P2068459	NM_010479	Hspa1a	0.69	-4.0	0.02	-3.2	0.46	-1.9
A_55_P1992720	XM_001476656	LOC100046701	1.00	-1.3	0.09	-1.7	0.04	-2.0
A_55_P2207186	DV055649		1.00	-1.3	0.92	-1.1	0.04	-2.0
A_30_P01031652			1.00	-1.3	0.46	-1.4	0.03	-2.0
A_55_P2141479	NR_004414	Rnu2	1.00	-1.3	0.23	-1.6	0.02	-2.1
A_55_P2076196	NM_001134644	CU041261.1	1.00	-1.1	0.56	-1.3	0.00	-2.1
A_30_P01030951			1.00	-1.5	0.00	-1.9	0.00	-2.2
A_55_P2031668	NM_013541	Gstp1	1.00	-1.5	0.15	-1.8	0.03	-2.3
A_52_P205255	NM_001110778	Adam11	0.69	-2.1	0.14	-1.8	0.03	-2.3
A_51_P344376	NM_013533	Gpr162	1.00	-1.6	0.01	-1.8	0.00	-2.3
A_55_P2043627	NM_001081120	Fam89a	1.00	-1.6	0.56	-1.5	0.04	-2.4
A_55_P2083307	NM_130890	Capn8	1.00	-1.5	0.30	-1.6	0.01	-2.4
A_55_P2151956	XM_001472653	Gm4480	0.59	-1.8	0.00	-2.2	0.00	-2.4
A_55_P1960735	NM_011819	Gdf15	1.00	-1.4	0.32	-1.6	0.04	-2.5
A_51_P266618	NM_010012	Cyp8b1	1.00	-1.3	0.46	-1.4	0.01	-2.5
A_55_P2056729	NM_008342	Igfbp2	1.00	-1.7	0.10	-2.2	0.03	-2.6
A_55_P2360266	BC052524	4833411C07Rik	1.00	-1.4	0.00	-2.0	0.00	-2.6
A_55_P1977776	NR_003280	LOC790956	1.00	-1.6	0.11	-2.0	0.02	-2.7
A_51_P268529	NM_144942	Csad	0.52	-2.5	0.06	-2.4	0.02	-2.7
A_55_P1954393	NM_144796	Susd4	1.00	-1.2	0.38	-1.6	0.00	-2.7
A_30_P01017959			1.00	1.0	0.69	-1.4	0.00	-2.7
A_55_P2000148	NM_175138	Dnaic1	0.59	-2.5	0.03	-2.4	0.01	-2.8
A_55_P2061104	NM_001081285	Mup6	1.00	-1.3	0.80	-1.3	0.00	-2.8
A_55_P2051476	NM_146148	C8a	1.00	-1.6	0.40	-1.6	0.00	-2.8
A_51_P204247	NM_146148	C8a	1.00	-1.6	0.15	-2.1	0.04	-3.0
A_55_P2351193	AF357397	Snora47	1.00	-1.5	0.21	-1.8	0.00	-3.0

A_55_P2081116	NM_001081120	Fam89a	1.00	-1.4	0.66	-1.5	0.01	-3.1
A_55_P2139087	NM_001013820	Gm5631	1.00	-1.3	0.63	-1.6	0.03	-3.3
A_55_P1994733	AK017734		1.00	-1.5	0.83	-1.3	0.00	-3.3
A_51_P257885	NM_175217	Mmd2	0.46	-2.5	0.00	-5.3	0.00	-3.9
A_55_P2075127	NM_011037	Pax2	1.00	-1.1	0.85	-1.4	0.03	-5.1
A_55_P2046671	XM_001477211	CU104690.1	1.00	-1.3	0.83	-1.4	0.00	-5.3
A_52_P402127	NM_001126319	Mup9	1.00	-1.1	0.93	-1.3	0.03	-6.7
A_51_P189733	NM_175250	2810007J24Rik	1.00	-1.1	0.92	-1.4	0.04	-6.8
A_51_P456208	NM_011575	Tff3	0.00	-5.3	0.00	-3.6	0.00	-6.9
A_55_P2143923	NM_022411	Slc13a2	0.15	-2.6	0.00	-4.5	0.00	-8.4
A_51_P493987	NM_021509	Moxd1	0.42	-5.0	0.00	-7.6	0.00	-23.9

3.2.5 Chr Liver. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 17.5, 50, and 150 mg/kg-bw/day chrysene in the liver. The list is sorted from highest to lowest fold change in the 150 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	17.5 mg/kg-bw/day		50 mg/kg-bw/day		150 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_55_P2142226	NM_001034870	Serpina3h	0.00	2.9	0.96	1.2	0.07	3.3
A_55_P2032079	NM_016974	Dbp	0.97	1.5	0.00	5.6	0.00	3.1
A_55_P2032081	NM_016974	Dbp	0.98	1.5	0.00	5.8	0.07	3.1
A_66_P110251	NM_177102	Tmem91	0.12	1.7	0.72	1.4	0.00	2.0
A_51_P164296	NM_021475	Adamdec1	0.09	1.6	0.86	1.2	0.00	1.8
A_55_P1979893	NM_017376	Tef	1.00	1.2	0.00	2.2	0.42	1.6
A_30_P01024113			0.00	1.7	0.80	1.3	0.32	1.5
A_30_P01031799			0.00	1.7	0.90	1.1	0.12	1.5
A_30_P01031204			0.00	1.6	0.57	1.4	0.00	1.5
A_30_P01033354			0.00	1.5	0.40	1.4	0.15	1.4
A_55_P2339601	CO043442	AW060742	0.00	1.5	0.81	1.2	0.18	1.4
A_30_P01032773			0.00	1.5	0.72	1.2	0.25	1.3
A_55_P2095181	AK135025		0.00	1.5	0.87	1.2	0.44	1.3
A_55_P2185330	AK038241		0.00	1.5	0.84	1.2	0.30	1.3
A_55_P1967231	NM_175096	Stbd1	0.98	1.2	0.00	1.8	0.62	1.3
A_51_P271865	NM_016751	Clec4f	1.00	1.0	0.00	-1.8	0.99	1.0
A_55_P1985070	NM_019413	Robo1	0.00	-1.9	0.99	-1.0	0.97	-1.1
A_55_P1956223	NM_013490	Chka	1.00	-1.1	0.00	-1.6	0.44	-1.3
A_55_P2408588	NM_007489	Arntl	1.00	-1.1	0.00	-2.7	0.42	-1.7
A_51_P470715	NM_009895	Cish	0.00	-5.9	0.86	-1.8	0.84	-1.7
A_55_P2165091	NM_145368	Acnat2	0.74	-1.5	0.23	-2.2	0.00	-2.1

3.2.6 DBahA Liver. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 6.25, 12.5, and 25 mg/kg-bw/day dibenz(ah)anthracene in the liver. The list is sorted from highest to lowest fold change in the 25 mg/kg-bw/day treatment group.

			6.25 mg/kg-bw/day	12.5 mg/kg-bw/day	25 mg/kg-bw/day
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Agilent Probe	Accession Number	Gene Symbol	FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_55_P2135203	XM_001477565	Gm9454	0.00	3.8	0.00	7.0	0.00	20.0
A_55_P1985788	NM_198092	Usp2	0.00	4.4	0.00	6.5	0.00	13.5
A_55_P2032081	NM_016974	Dbp	0.00	6.4	0.00	11.4	0.00	12.8
A_55_P2032079	NM_016974	Dbp	0.00	5.9	0.00	10.0	0.00	11.6
A_55_P2042813	NM_001039647	Gbp11	0.12	3.2	0.09	4.4	0.00	7.1
A_55_P2067777	NM_001162906	2410089E03Rik	0.15	2.0	0.00	4.9	0.00	6.2
A_51_P470715	NM_009895	Cish	0.61	2.2	0.36	3.5	0.02	6.1
A_30_P01018928	0	NA	0.75	1.4	0.30	2.0	0.00	3.9
A_55_P2024046	NM_001080934	Slc16a5	0.05	2.0	0.24	1.9	0.00	3.8
A_66_P120125	NM_053078	D0H4S114	0.71	1.5	0.42	2.1	0.01	3.8
A_55_P2051159	NM_029692	Upp2	0.11	2.3	0.22	2.2	0.00	3.8
A_55_P1979893	NM_017376	Tef	0.00	2.6	0.00	2.9	0.00	3.6
A_66_P136186	NM_009516	Wee1	0.20	1.9	0.16	2.1	0.00	3.5
A_52_P259817	NM_029692	Upp2	0.18	2.1	0.27	2.1	0.00	3.4
A_55_P2029574	NM_008898	Por	0.18	2.0	0.18	2.2	0.00	3.4
A_55_P1965456	NM_008262	Onecut1	0.98	1.0	0.70	1.6	0.00	3.4
A_51_P372456	NM_001081441	Wdr86	0.59	1.8	0.80	1.5	0.02	3.3
A_55_P2116165	NM_133232	Pfkfb3	0.58	1.6	0.10	2.7	0.00	3.3
A_52_P194851	NM_001162906	2410089E03Rik	0.68	1.4	0.08	2.3	0.00	3.1
A_51_P282760	NM_011066	Per2	0.24	1.9	0.79	1.3	0.00	3.1
A_52_P495869	NM_010658	Mafb	0.13	1.9	0.00	2.6	0.00	3.0
A_55_P2089488	NM_001039710	Coq10b	0.15	1.8	0.03	2.2	0.00	3.0
A_30_P01030435	0	NA	0.37	2.1	0.36	2.4	0.04	3.0
A_55_P1974487	NM_177195	Atp8b5	0.24	1.8	0.21	2.0	0.00	3.0
A_30_P01030934	0	NA	0.33	2.2	0.54	1.9	0.03	2.9
A_30_P01024344	0	NA	0.60	1.4	0.04	2.4	0.00	2.8
A_30_P01025511	0	NA	0.43	1.5	0.06	2.2	0.00	2.8
A_55_P2185900	NM_032002	Nrg4	0.34	1.9	0.64	1.6	0.01	2.7
A_55_P2019690	NM_001081349	Slc43a1	0.26	1.7	0.37	1.6	0.00	2.7
A_55_P1963134	XM_895691	Gm6135	0.22	2.0	0.71	1.5	0.00	2.7
A_52_P293682	XM_001477336	Sult2a7	0.45	1.6	0.45	1.7	0.01	2.6
A_51_P301998	NM_018881	Fmo2	0.32	1.5	0.72	1.3	0.00	2.6
A_52_P663526	NM_145497	BC016495	0.63	1.4	0.62	1.5	0.00	2.6
A_52_P547662	NM_008772	P2ry1	0.11	2.0	0.74	1.3	0.00	2.6
A_55_P2185905	NM_032002	Nrg4	0.40	1.9	0.90	1.2	0.04	2.5
A_51_P258493	NM_011067	Per3	0.09	2.0	0.32	1.7	0.01	2.5
A_52_P627816	NM_019984	Tgm1	0.79	1.3	0.78	1.3	0.01	2.5
A_52_P197402	NM_029057	Tbc1d30	0.77	1.3	0.76	1.3	0.01	2.5
A_55_P2081761	XM_001475152	LOC100045680	0.72	1.3	0.55	1.6	0.00	2.5
A_52_P366525	NM_001039710	Coq10b	0.70	1.3	0.25	1.9	0.00	2.5
A_55_P2167269	NM_008793	Pcsk4	0.34	1.5	0.16	1.8	0.00	2.5
A_55_P2142326	XM_923315	Zfp167	0.16	1.7	0.75	1.3	0.00	2.5
A_55_P1969660	NM_028730	Pex26	0.22	1.7	0.24	1.8	0.00	2.5
A_55_P1966029	AK084964	A930033H14Rik	0.49	1.4	0.25	1.7	0.00	2.4

A_55_P2404484	NR_027980	1700001L05Rik	0.74	1.3	0.17	1.8	0.00	2.4
A_55_P2119917	NM_011772	Ikzf4	0.33	1.7	0.61	1.5	0.00	2.4
A_51_P219483	NM_001024619	Tsku	0.73	1.3	0.83	1.2	0.00	2.4
A_52_P303891	NM_011584	Nr1d2	0.00	1.8	0.00	2.0	0.00	2.3
A_55_P2148534	BC096461	Nr1d2	0.00	2.1	0.00	2.1	0.00	2.3
A_55_P2114318	XM_001478955	Gm4080	0.04	2.2	0.24	1.9	0.00	2.3
A_55_P1983754	NM_025557	Pcp4l1	0.00	2.4	0.30	1.6	0.00	2.3
A_52_P211185	NM_008140	Gnat1	0.54	1.5	0.35	1.9	0.03	2.3
A_55_P2387665	AK033690	9130221J18Rik	0.21	2.0	0.93	1.1	0.03	2.3
A_51_P272553	NM_011498	Bhlhe40	0.84	1.2	0.39	1.6	0.01	2.3
A_30_P01029443	0	NA	0.79	1.2	0.59	1.5	0.01	2.3
A_51_P269404	NM_008030	Fmo3	0.59	1.4	0.81	1.2	0.01	2.3
A_55_P1979674	NM_011772	Ikzf4	0.61	1.5	0.51	1.6	0.01	2.3
A_51_P185292	NR_029475	4930581F22Rik	0.29	1.6	0.33	1.7	0.00	2.3
A_55_P2416494	AK020235	8430426J06Rik	0.64	1.4	0.36	1.7	0.00	2.3
A_55_P2082658	XM_001472995	Gm2268	0.15	1.7	0.69	1.3	0.00	2.3
A_55_P1970033	NM_011065	Per1	0.48	1.5	0.09	2.1	0.02	2.2
A_55_P2027102	NM_134257	Rgs3	0.72	1.3	0.28	1.9	0.02	2.2
A_51_P176042	NM_013631	Pklr	0.74	1.3	0.93	1.1	0.01	2.2
A_55_P2007495	XM_001472204	Gm2034	0.07	2.0	0.33	1.7	0.00	2.2
A_51_P243755	NM_011388	Slc10a2	0.13	2.0	0.63	1.5	0.03	2.1
A_51_P152990	NM_011825	Grem2	0.84	1.2	0.39	1.8	0.03	2.1
A_55_P2072925	0	NA	0.58	1.4	0.72	1.3	0.02	2.1
A_51_P473953	NM_001081295	4631416L12Rik	0.47	1.4	0.33	1.6	0.01	2.1
A_55_P2256586	AK016293	4930573O21Rik	0.06	1.7	0.14	1.6	0.00	2.1
A_51_P387235	NM_021524	Nampt	0.67	1.3	0.50	1.5	0.00	2.1
A_51_P158814	AK081212	Marveld1	0.29	1.5	0.29	1.6	0.00	2.1
A_55_P2047614	NM_172763	Zfp809	0.23	1.5	0.41	1.5	0.00	2.1
A_52_P376135	NM_021462	Mknk2	0.03	1.9	0.07	1.9	0.00	2.0
A_55_P2145804	NM_026531	Aen	0.53	1.2	0.00	1.7	0.00	2.0
A_55_P2303310	AK050309	C730036E19Rik	0.43	1.6	0.84	1.2	0.04	2.0
A_51_P288916	NM_177368	Tmtc2	0.43	1.5	0.60	1.5	0.03	2.0
A_51_P164296	NM_021475	Adamdec1	0.13	1.9	0.18	2.0	0.03	2.0
A_55_P2153783	NM_010231	Fmo1	0.12	1.8	0.85	-1.2	0.03	2.0
A_55_P2064851	NM_001164682	Mpp4	0.39	1.5	0.63	1.4	0.02	2.0
A_51_P200667	NM_053155	Clnn	0.40	1.4	0.40	1.5	0.01	2.0
A_55_P2243431	BC052902	Gdap10	0.09	1.9	0.28	1.7	0.01	2.0
A_55_P2006662	BC124559	Gm14431	0.20	1.6	0.56	1.4	0.01	2.0
A_55_P2394490	AK052609	D630004K10Rik	0.13	1.8	0.85	1.2	0.01	2.0
A_55_P2067533	NM_010446	Foxa2	0.16	1.6	0.83	1.2	0.01	2.0
A_55_P1954643	XM_001474512	2310081J21Rik	0.03	1.9	0.90	-1.1	0.01	1.9
A_52_P468068	NM_001163098	Tchh	0.03	2.2	0.53	1.5	0.05	1.9
A_55_P2051596	XM_001479558	Gm4499	0.70	1.2	0.04	1.8	0.00	1.9
A_52_P612803	NM_009831	Ccng1	0.06	1.5	0.00	1.7	0.00	1.9
A_55_P2048478	NM_172907	Olfml1	0.81	1.2	0.64	1.4	0.04	1.9
A_55_P2088028	NM_144800	Mtss1	0.54	1.3	0.46	1.5	0.02	1.9
A_55_P1956624	XM_001004267	Gm14431	0.60	1.3	0.84	1.2	0.02	1.9
A_55_P1998811	XM_001476688	Gm3430	0.72	1.2	0.09	1.7	0.01	1.9
A_55_P2141860	NM_026531	Aen	0.53	1.2	0.06	1.6	0.00	1.9

A_55_P2132512	NM_001111314	Ngef	0.12	1.7	0.47	1.4	0.00	1.9
A_52_P508991	NM_010231	Fmo1	0.57	1.3	0.91	1.1	0.00	1.9
A_55_P2022082	NM_021366	Klf13	0.22	1.4	0.12	1.6	0.00	1.9
A_55_P2091473	NM_009760	Bnip3	0.17	1.5	0.17	1.5	0.00	1.9
A_51_P352303	NM_011983	Homer2	0.35	1.5	0.85	1.2	0.00	1.9
A_55_P2016540	NM_009963	Cry2	0.00	1.6	0.09	1.5	0.00	1.8
A_55_P2035424	NM_008278	Hpgd	0.00	1.9	0.84	1.2	0.00	1.8
A_55_P2159934	NM_025786	Rnf186	0.00	3.5	0.08	2.6	0.27	1.8
A_55_P2000182	NM_177870	Slc5a6	0.36	1.3	0.04	1.6	0.00	1.8
A_55_P2083894	XM_001478221	Gm3697	0.88	1.1	0.87	1.2	0.04	1.8
A_51_P483473	NM_011375	St3gal5	0.57	1.4	0.40	1.5	0.04	1.8
A_30_P01018879	0	NA	0.91	1.1	0.61	1.4	0.04	1.8
A_55_P2390776	NR_027981	1810064F22Rik	0.14	1.8	0.35	1.6	0.04	1.8
A_51_P309854	NM_080465	Kcnn2	0.19	1.7	0.95	1.1	0.04	1.8
A_51_P369252	NM_001080995	4632434I11Rik	0.83	1.2	0.24	1.7	0.04	1.8
A_51_P488730	NM_175480	Zfp612	0.50	1.4	0.90	1.1	0.03	1.8
A_66_P123155	NM_027442	Ddo	0.67	1.3	1.00	1.0	0.03	1.8
A_55_P2255449	AK033778	NA	0.12	1.6	0.53	1.4	0.03	1.8
A_55_P2170881	NM_175164	Arhgap26	0.70	1.2	0.94	1.1	0.03	1.8
A_55_P2090633	NM_011200	Ptp4a1	0.28	1.5	0.66	1.3	0.01	1.8
A_30_P01032002	0	NA	0.90	1.1	0.28	1.6	0.01	1.8
A_55_P2325698	AK008051	2010002M09Rik	0.99	1.0	0.91	1.1	0.01	1.8
A_51_P316951	NM_001167860	Wipf3	0.17	1.5	0.41	1.4	0.00	1.8
A_55_P2052535	NM_001085546	LOC664987	0.08	1.5	0.42	1.4	0.00	1.8
A_51_P494125	NM_007431	Alpl	0.10	1.6	0.98	-1.0	0.00	1.8
A_51_P493037	NM_018831	Dclre1a	0.33	1.4	0.72	1.2	0.00	1.8
A_52_P40504	AK162948	NA	0.20	1.4	0.58	1.3	0.00	1.8
A_55_P2201395	AK082845	2410017I117Rik	0.24	1.5	0.90	1.1	0.00	1.8
A_55_P2084910	NM_178723	Zfp385b	0.07	1.6	0.82	1.2	0.00	1.8
A_66_P122086	NM_001039720	9030619P08Rik	0.75	1.2	0.46	1.4	0.00	1.8
A_55_P1994032	NM_013842	Xbp1	0.74	1.2	0.33	1.5	0.00	1.8
A_51_P285916	NM_019688	Rapgef4	0.57	1.3	0.80	1.2	0.00	1.8
A_51_P152845	NM_145076	Trim24	0.39	1.3	0.60	1.3	0.00	1.8
A_55_P2091472	NM_009760	Bnip3	0.13	1.5	0.11	1.5	0.00	1.8
A_51_P101460	NM_023842	Dsp	0.04	1.5	0.67	1.2	0.00	1.7
A_66_P118430	AK040717	NA	0.00	1.8	0.77	1.2	0.02	1.7
A_55_P2027392	NM_030258	Gpr146	0.61	1.2	0.03	1.5	0.00	1.7
A_55_P1979377	NM_011391	Slc16a7	0.42	1.4	0.85	1.2	0.04	1.7
A_52_P669005	NM_023624	Lrat	0.86	1.1	0.77	-1.2	0.04	1.7
A_55_P2031288	NM_031884	Abcg5	0.34	1.5	0.55	1.4	0.04	1.7
A_51_P458778	NM_008278	Hpgd	0.06	1.8	0.99	1.0	0.03	1.7
A_51_P314679	NM_001039521	Rrn3	0.75	1.2	0.46	1.5	0.03	1.7
A_51_P296608	NM_007836	Gadd45a	0.12	1.7	0.18	1.7	0.03	1.7
A_55_P1972297	NM_183152	Plk5	0.54	1.3	0.97	-1.0	0.03	1.7
A_52_P281659	AK002926	Klf13	0.31	1.4	0.61	1.3	0.02	1.7
A_51_P300572	NM_009579	Slc30a1	0.15	1.6	0.44	1.4	0.02	1.7
A_55_P2033997	NM_027442	Ddo	0.54	1.3	0.99	1.0	0.02	1.7
A_55_P2134236	NM_010446	Foxa2	0.35	1.4	0.80	1.2	0.02	1.7
A_30_P01018133	0	NA	0.78	1.2	0.81	1.2	0.02	1.7

A_55_P2007713	NM_053082	Tspan4	0.62	1.3	0.42	1.5	0.02	1.7
A_55_P2108248	NM_026639	Art4	0.68	1.3	0.84	1.2	0.01	1.7
A_55_P2052563	NM_010495	Id1	0.94	1.1	0.27	1.5	0.01	1.7
A_55_P2174601	XM_001477810	Plekha7	0.53	1.3	1.00	1.0	0.01	1.7
A_30_P01024578	0	NA	0.78	1.2	0.55	1.3	0.01	1.7
A_66_P125701	XM_001481105	Gm4673	0.55	1.3	0.72	1.2	0.01	1.7
A_55_P2097964	XM_001481064	9030622O22Rik	0.44	1.3	0.80	1.2	0.01	1.7
A_52_P516034	NM_011200	Ptp4a1	0.36	1.4	0.56	1.3	0.01	1.7
A_52_P451834	NM_183262	Stk35	0.11	1.6	0.27	1.5	0.01	1.7
A_55_P2032388	NM_145076	Trim24	0.55	1.3	0.73	1.2	0.01	1.7
A_52_P168575	NM_001013811	Fam169b	0.12	1.6	0.81	1.2	0.01	1.7
A_55_P1997911	0	NA	0.33	1.4	0.61	1.3	0.01	1.7
A_55_P2244142	BC030682	Klf13	0.37	1.4	0.25	1.5	0.00	1.7
A_51_P335981	NM_026272	Narf	0.07	1.4	0.33	1.3	0.00	1.7
A_55_P1981836	NM_145536	BC020535	0.00	1.6	0.80	1.1	0.00	1.6
A_55_P1961241	XM_001476526	LOC100046627	0.00	1.7	0.89	1.1	0.02	1.6
A_51_P109258	NM_138686	Cys1	0.00	2.0	0.96	1.1	0.07	1.6
A_52_P232580	NM_145508	Dyrk3	0.45	1.3	0.00	1.7	0.01	1.6
A_55_P2013760	NM_001135151	Slc39a14	0.31	1.3	0.00	1.6	0.00	1.6
A_51_P201338	NM_144800	Mtss1	0.70	1.2	0.47	1.4	0.04	1.6
A_52_P336585	NM_028717	Als2	0.32	1.4	0.91	1.1	0.04	1.6
A_55_P2083806	NM_177082	Sp8	0.78	1.2	0.78	1.2	0.04	1.6
A_55_P2073024	XM_001471547	Gm4841	0.74	1.2	0.90	-1.1	0.04	1.6
A_65_P06147	NM_008010	Fgfr3	0.67	1.2	0.87	1.1	0.04	1.6
A_55_P2009752	NM_172563	Hlf	0.15	1.5	0.69	1.2	0.03	1.6
A_52_P262676	0	NA	0.31	1.4	0.60	1.3	0.03	1.6
A_66_P120736	NM_009760	Bnip3	0.33	1.4	0.30	1.4	0.03	1.6
A_51_P446583	NM_173364	Zfp445	0.99	-1.0	0.67	1.3	0.03	1.6
A_51_P352738	NM_033564	Mpv17l	0.41	1.3	0.82	1.1	0.03	1.6
A_55_P2012815	NM_007397	Acvr2b	0.49	1.3	0.31	1.5	0.03	1.6
A_30_P01022288	0	NA	0.60	1.3	0.97	1.0	0.03	1.6
A_55_P1979973	NM_028778	Nuak2	0.49	1.3	0.72	1.2	0.02	1.6
A_51_P369862	NM_178772	Nceh1	0.84	1.1	0.40	1.4	0.02	1.6
A_55_P2322709	AK014609	4633401B06Rik	0.33	1.4	0.74	1.2	0.02	1.6
A_51_P386503	NM_026185	Abhd15	0.15	1.5	0.88	1.1	0.02	1.6
A_51_P240986	NM_198604	Plekha6	0.73	1.2	0.91	1.1	0.02	1.6
A_51_P465292	NM_080462	Hnmt	0.22	1.4	0.68	1.2	0.01	1.6
A_55_P1959305	NM_178446	Rbm47	0.44	1.3	0.52	1.3	0.01	1.6
A_51_P256093	NM_011943	Map2k6	0.56	1.3	0.67	1.2	0.01	1.6
A_55_P2082045	NM_173028	Vps13a	0.63	1.2	0.78	1.2	0.01	1.6
A_55_P2065621	NM_133255	Hook2	0.42	1.3	0.11	1.5	0.01	1.6
A_51_P155755	NM_183139	Pld6	0.33	1.3	0.79	1.2	0.01	1.6
A_52_P607128	NM_031195	Msr1	0.13	1.4	0.41	1.3	0.01	1.6
A_55_P2040295	NM_011200	Ptp4a1	0.27	1.4	0.70	1.2	0.01	1.6
A_55_P1996087	XM_902322	Gm14326	0.27	1.4	0.49	1.3	0.01	1.6
A_55_P2009861	XM_001472138	Gm2015	0.13	1.5	0.28	1.4	0.01	1.6
A_55_P2156068	XM_001478105	Gm3823	0.07	1.5	0.07	1.5	0.01	1.6
A_51_P511236	NM_001077495	Pik3r1	0.70	1.2	0.62	1.3	0.01	1.6
A_55_P2031999	NM_145448	9030617O03Rik	0.44	1.3	0.46	1.3	0.01	1.6

A_51_P164835	NM_008909	Ppl	0.17	1.4	0.68	1.2	0.00	1.6
A_55_P1971889	NM_010171	F3	0.57	1.2	0.19	1.5	0.00	1.6
A_51_P191893	AK163489	2410022M11Rik	0.12	1.3	0.28	1.3	0.00	1.6
A_55_P2130393	NM_001034885	Pnpla1	0.37	1.3	0.83	1.1	0.00	1.6
A_55_P1957088	NM_212473	Fam53b	0.65	1.2	0.27	1.4	0.00	1.6
A_30_P01020716	0	NA	0.23	1.3	0.28	1.4	0.00	1.6
A_55_P2002854	NM_001039194	Aifm2	0.22	1.3	0.41	1.3	0.00	1.6
A_55_P2064771	NM_010741	Ly6c1	0.53	1.2	0.13	1.5	0.00	1.6
A_55_P2104119	0	NA	0.83	1.1	0.60	1.2	0.00	1.6
A_55_P2097048	0	NA	0.31	1.3	0.33	1.4	0.00	1.6
A_51_P108020	NM_001029929	Zmynd15	0.04	1.5	0.47	1.3	0.03	1.5
A_52_P659258	NM_172146	Ppat	0.00	1.5	0.08	1.4	0.00	1.5
A_52_P78373	NM_011366	Sorbs3	0.00	1.5	0.03	1.4	0.00	1.5
A_55_P2102769	NM_153145	Abca8a	0.03	1.9	0.93	1.1	0.19	1.5
A_52_P608322	NM_010755	Maff	0.41	1.3	0.00	1.7	0.06	1.5
A_55_P2089238	NM_145553	Fam76a	0.16	1.3	0.00	1.5	0.00	1.5
A_55_P1990780	NM_011200	Ptp4a1	0.33	1.4	0.67	1.2	0.04	1.5
A_52_P538673	NM_010197	Fgf1	0.86	1.1	0.88	-1.1	0.04	1.5
A_55_P1972527	NM_178935	Txlng	0.47	1.3	0.80	1.1	0.04	1.5
A_55_P2007802	NM_026003	Smarca2	0.40	1.3	0.72	1.2	0.04	1.5
A_52_P609109	NM_145823	Pitpnc1	0.17	1.4	0.83	1.1	0.04	1.5
A_55_P1995774	0	NA	0.30	1.3	0.77	1.2	0.04	1.5
A_51_P212420	NM_010681	Lama4	0.18	1.4	0.57	1.3	0.04	1.5
A_55_P2160761	NM_001122676	Zcchc2	0.09	1.4	0.77	1.1	0.03	1.5
A_55_P2040860	NM_177576	Sun3	0.25	1.4	0.50	1.3	0.03	1.5
A_55_P2002578	NM_010145	Ephx1	0.58	1.2	0.53	1.3	0.03	1.5
A_55_P2360501	DV051837	NA	0.18	1.4	0.74	1.2	0.03	1.5
A_55_P2023484	NM_024289	Osbpl5	0.75	1.2	0.54	1.3	0.03	1.5
A_51_P478098	NM_001113416	Epb4.115	0.44	1.3	0.96	-1.0	0.03	1.5
A_51_P160907	NM_001045529	Morc3	0.20	1.4	0.78	1.1	0.02	1.5
A_52_P225584	NM_026185	Abhd15	0.20	1.4	1.00	1.0	0.02	1.5
A_30_P01032861	0	NA	0.14	1.4	0.79	1.1	0.02	1.5
A_55_P1969477	NM_011076	Abcb1a	0.35	1.3	0.71	1.2	0.02	1.5
A_55_P2081303	NM_001040400	Tet2	0.57	1.2	0.95	1.0	0.02	1.5
A_30_P01023346	0	NA	0.65	1.2	0.68	1.2	0.02	1.5
A_51_P490348	NM_025423	1110059E24Rik	0.95	1.0	0.64	1.2	0.02	1.5
A_30_P01021491	0	NA	0.42	1.3	0.79	1.1	0.01	1.5
A_55_P1954306	NM_007953	Esrra	0.59	1.2	0.81	1.1	0.01	1.5
A_51_P332141	NM_009900	Clcn2	0.30	1.3	0.38	1.3	0.01	1.5
A_55_P1966189	NM_001008700	Il4ra	0.80	1.1	0.63	1.2	0.01	1.5
A_55_P2024463	NM_198100	Tbkbp1	0.75	1.1	0.99	-1.0	0.01	1.5
A_51_P483483	AK014549	NA	0.16	1.3	0.45	1.2	0.00	1.5
A_51_P109449	NM_008519	Ltb4r1	0.16	1.4	0.63	1.2	0.00	1.5
A_55_P1956807	NM_001099308	Gm14391	0.04	1.4	0.42	1.3	0.00	1.5
A_52_P573552	NM_144549	Trib1	0.65	1.2	0.16	1.4	0.00	1.5
A_55_P2099742	NM_011888	Ccl19	0.49	1.2	0.88	1.1	0.00	1.5
A_30_P01028387	0	NA	0.49	1.2	0.58	1.2	0.00	1.5
A_55_P2019463	NM_001081260	Tnks1bp1	0.70	1.1	0.37	1.3	0.00	1.5
A_55_P2320085	AK014704	4833415N18Rik	0.93	1.0	0.55	1.2	0.00	1.5

A_55_P2055123	NM_001113478	Frrs1	0.00	1.4	0.47	1.2	0.00	1.5
A_55_P2367415	AK035805	A630026N12Rik	0.03	1.5	0.55	1.2	0.01	1.4
A_55_P2124385	NM_009647	Ak4	0.03	1.6	0.74	1.2	0.06	1.4
A_55_P2073248	NM_001013780	Slc25a34	0.03	1.7	0.95	1.1	0.18	1.4
A_30_P01027568	0	NA	0.00	1.5	0.85	1.1	0.08	1.3
A_55_P2340593	AK007545	1810019D21Rik	0.00	1.5	0.47	1.2	0.07	1.3
A_51_P509679	XM_001474025	Igh-VJ558	0.04	3.0	0.14	2.5	0.79	1.3
A_51_P117226	AK046533	NA	0.33	1.2	0.04	1.5	0.14	1.3
A_30_P01022593	0	NA	0.00	1.5	0.68	1.2	0.21	1.2
A_55_P2129000	NM_144853	Cyrr1	0.00	1.5	0.90	-1.1	0.79	1.1
A_55_P2272311	AK015661	4930500G05Rik	0.89	1.1	0.04	1.7	0.82	1.1
A_55_P2048493	NR_027955	4931440P22Rik	0.39	1.2	0.00	1.5	0.70	1.1
A_51_P436469	NM_144821	Al317395	0.91	1.1	0.04	-2.0	0.97	1.0
A_55_P1976744	XM_001478262	Gm4324	0.84	1.1	0.04	-1.7	0.83	-1.1
A_55_P2121225	NM_007818	Cyp3a11	0.97	1.0	0.00	-2.3	0.85	-1.1
A_52_P613653	NM_153525	Tmem41b	0.31	-1.3	0.04	-1.5	0.54	-1.2
A_30_P01019938	0	NA	0.67	1.2	0.00	-1.7	0.59	-1.2
A_30_P01022479	0	NA	0.92	-1.1	0.00	-1.8	0.64	-1.2
A_66_P106611	NM_008137	Gna14	0.79	-1.2	0.03	-2.1	0.74	-1.2
A_51_P137336	NM_009864	Cdh1	0.42	-1.4	0.00	-2.2	0.64	-1.2
A_30_P01033222	0	NA	0.00	-1.6	0.53	-1.3	0.15	-1.3
A_30_P01017460	0	NA	0.03	-1.5	0.57	-1.2	0.23	-1.3
A_30_P01026097	0	NA	0.00	-1.5	0.87	-1.1	0.18	-1.3
A_30_P01021625	0	NA	0.86	1.1	0.03	-1.7	0.33	-1.3
A_30_P01018251	0	NA	0.00	-2.1	0.56	-1.4	0.25	-1.4
A_52_P388164	NM_146756	Olfr608	0.00	-1.7	0.48	-1.3	0.12	-1.4
A_30_P01033615	0	NA	0.03	-1.6	0.21	-1.4	0.10	-1.4
A_55_P2107647	0	NA	0.04	-1.5	0.53	-1.2	0.04	-1.4
A_52_P550843	NM_024282	Pppde1	0.62	-1.2	0.04	-1.6	0.03	-1.4
A_52_P662098	NM_019671	Net1	0.65	-1.2	0.00	-1.6	0.03	-1.4
A_55_P2177248	AK137750	NA	0.55	-1.2	0.00	-1.6	0.07	-1.4
A_52_P269158	NM_001003948	Pid1	0.54	-1.3	0.03	-1.8	0.24	-1.4
A_66_P134704	NM_001013762	Gm4952	0.89	-1.1	0.03	-2.0	0.34	-1.4
A_55_P2179974	NM_029035	Spsb1	0.00	-2.0	0.51	-1.3	0.01	-1.5
A_30_P01020059	0	NA	0.04	-1.9	0.42	-1.5	0.25	-1.5
A_55_P2182392	NM_001100606	Adat3	0.00	-1.8	0.45	-1.3	0.03	-1.5
A_55_P2249897	AK081173	B930096F20Rik	0.00	-1.6	0.27	-1.3	0.00	-1.5
A_55_P2008874	NM_001003961	Dnmt3b	0.00	-1.6	0.03	-1.7	0.01	-1.5
A_55_P2391185	DV044254	NA	0.05	-1.5	0.42	-1.3	0.02	-1.5
A_55_P2065671	NM_172301	Ccnb1	0.00	-1.5	0.99	-1.0	0.00	-1.5
A_66_P135403	AK135748	Al481877	0.00	-1.5	0.39	-1.3	0.01	-1.5
A_55_P2119764	NM_010672	Krtap6-1	0.67	-1.2	0.04	-1.8	0.16	-1.5
A_30_P01021637	0	NA	0.35	-1.3	0.04	-1.8	0.05	-1.5
A_66_P105736	NM_019671	Net1	0.83	-1.1	0.00	-1.9	0.01	-1.5
A_55_P2048499	XM_001474426	NA	0.64	-1.3	0.04	-2.0	0.17	-1.5
A_30_P01018914	0	NA	0.43	-1.5	0.04	-2.2	0.34	-1.5
A_52_P175242	NM_010570	Irs1	0.83	1.1	0.24	-1.4	0.04	-1.5
A_51_P111164	NM_172612	Rnd1	0.97	-1.0	0.92	-1.1	0.04	-1.5
A_55_P2020188	XM_993808	LOC676890	0.21	-1.4	0.12	-1.5	0.04	-1.5

A_55_P2106394	NM_026412	D2Ertd750e	0.41	-1.3	0.93	-1.1	0.03	-1.5
A_55_P2070194	NM_016739	Caprin1	0.64	-1.2	0.37	-1.4	0.03	-1.5
A_51_P227004	NM_016904	Cks1b	0.27	-1.4	0.52	-1.3	0.03	-1.5
A_55_P1999648	NM_007408	Plin2	0.52	-1.3	0.46	-1.3	0.03	-1.5
A_51_P344376	NM_013533	Gpr162	0.22	-1.4	0.40	-1.3	0.03	-1.5
A_30_P01019283	0	NA	0.16	-1.5	0.65	-1.2	0.02	-1.5
A_51_P104891	NM_027652	Ept1	0.71	-1.2	0.28	-1.4	0.02	-1.5
A_51_P114028	NM_009746	Bcl7c	0.18	-1.4	0.29	-1.4	0.02	-1.5
A_52_P568805	NM_146093	Ubxn1	0.53	-1.3	0.73	-1.2	0.02	-1.5
A_51_P479052	NM_033074	Tars	0.14	-1.4	0.08	-1.6	0.01	-1.5
A_55_P2087280	XM_001003060	LOC677388	0.76	-1.1	0.45	-1.3	0.01	-1.5
A_52_P226929	NM_207653	Cflar	0.32	-1.3	0.21	-1.3	0.01	-1.5
A_55_P2013043	NM_011454	Serpinb6b	0.75	-1.2	0.38	-1.3	0.01	-1.5
A_52_P504478	NM_007414	Adprh	0.12	-1.3	0.33	-1.2	0.00	-1.5
A_55_P2178803	NM_001163284	Zbtb5	0.20	-1.3	0.25	-1.3	0.00	-1.5
A_55_P2044143	NM_001164311	Loxl4	0.04	-1.3	0.19	-1.2	0.00	-1.5
A_66_P129763	XM_897153	Gm6329	0.00	-1.9	0.12	-1.6	0.05	-1.6
A_51_P392429	NM_175534	Mrgpre	0.00	-1.8	0.30	-1.4	0.01	-1.6
A_55_P1964613	AK168315	Dnttip1	0.00	-1.8	0.33	-1.4	0.01	-1.6
A_55_P2055168	NM_001122662	Gm2016	0.03	-1.6	0.06	-1.6	0.01	-1.6
A_55_P2160726	AK147898	Tcfcp2	0.00	-1.6	0.78	-1.1	0.00	-1.6
A_55_P2012779	NM_027445	Rnf167	0.00	-1.6	0.21	-1.3	0.00	-1.6
A_51_P488510	NM_145221	Appl1	0.03	-1.5	0.00	-1.4	0.01	-1.6
A_51_P379976	NM_001039515	Arl4a	0.32	-1.3	0.00	-1.6	0.00	-1.6
A_55_P2097665	NM_001039515	Arl4a	0.55	-1.2	0.00	-1.8	0.01	-1.6
A_55_P2027213	NM_001163615	Krtap20-2	0.47	-1.4	0.03	-2.0	0.05	-1.6
A_52_P883557	NM_001033286	Slc30a10	0.50	-1.5	0.04	-2.4	0.26	-1.6
A_51_P241995	NM_016919	Col5a3	0.76	-1.2	0.71	-1.2	0.04	-1.6
A_55_P1970910	NM_001163493	Stard13	0.94	-1.1	0.29	-1.4	0.04	-1.6
A_55_P1966863	NM_027985	Mad2l2	0.44	-1.3	0.69	-1.3	0.04	-1.6
A_52_P214630	NM_011448	Sox9	0.12	-1.5	0.24	-1.5	0.03	-1.6
A_55_P2368710	AK082316	C230037E05Rik	0.30	-1.4	0.35	-1.5	0.03	-1.6
A_51_P218953	NM_172385	Zfp536	0.12	-1.5	0.92	-1.1	0.03	-1.6
A_55_P1968178	NM_174992	Smagp	0.30	-1.4	0.31	-1.4	0.02	-1.6
A_55_P2279035	AK018519	9030419F21Rik	0.22	-1.4	0.29	-1.4	0.02	-1.6
A_55_P2143436	0	NA	0.10	-1.5	0.09	-1.5	0.02	-1.6
A_55_P1957038	NM_181796	Gstp2	0.62	-1.2	0.77	-1.2	0.01	-1.6
A_55_P1956718	NM_028238	Rab38	0.93	-1.1	0.37	-1.4	0.01	-1.6
A_51_P374464	NM_013541	Gstp1	0.50	-1.3	0.88	-1.1	0.01	-1.6
A_55_P2032818	NM_030706	Trim2	0.43	-1.3	0.11	-1.6	0.01	-1.6
A_52_P334670	NM_007715	Clock	0.71	-1.2	0.14	-1.5	0.01	-1.6
A_52_P91618	NM_030257	Lysmd3	0.15	-1.4	0.21	-1.5	0.01	-1.6
A_51_P264825	NM_008479	Lag3	0.34	-1.3	0.21	-1.5	0.01	-1.6
A_55_P1980836	XM_001472686	NA	0.32	-1.3	0.90	-1.1	0.00	-1.6
A_52_P547187	NM_138667	Tab2	0.51	-1.3	0.39	-1.4	0.00	-1.6
A_66_P107231	NM_001164311	Loxl4	0.07	-1.4	0.06	-1.4	0.00	-1.6
A_30_P01027122	0	NA	0.47	-1.3	0.83	-1.1	0.00	-1.6
A_52_P625683	NM_021534	Pxmp4	0.16	-1.4	0.11	-1.4	0.00	-1.6
A_55_P2247096	BC028777	BC028777	0.13	-1.5	0.85	-1.1	0.00	-1.6

A_55_P2221236	AK085976	NA	0.00	-2.3	0.79	-1.2	0.03	-1.7
A_55_P2076749	NM_023525	Cad	0.05	-1.8	0.03	-2.0	0.01	-1.7
A_55_P2173288	NM_053126	Pcdhb1	0.03	-1.7	0.42	-1.4	0.01	-1.7
A_55_P2099947	NM_001163282	Gdf1	0.03	-1.7	0.00	-1.9	0.01	-1.7
A_51_P349495	NM_153546	Mboat1	0.05	-1.6	0.38	-1.3	0.00	-1.7
A_51_P418560	NM_080795	Lnx2	0.52	-1.3	0.03	-1.6	0.00	-1.7
A_55_P2146655	XM_001472967	Gm2262	0.13	-1.7	0.00	-2.1	0.06	-1.7
A_55_P2069755	NM_138302	Tymp	0.52	-1.3	0.47	-1.4	0.04	-1.7
A_51_P352594	NM_001001326	St5	0.35	-1.4	0.17	-1.7	0.03	-1.7
A_55_P1972490	XM_001474107	Gm4055	0.62	-1.3	0.42	-1.4	0.03	-1.7
A_55_P1987290	NR_004413	Rnu1b6	0.45	-1.3	0.35	-1.5	0.03	-1.7
A_55_P2008704	NM_181796	Gstp2	0.63	-1.2	0.86	-1.1	0.01	-1.7
A_51_P487298	NM_139307	Vasn	0.21	-1.5	0.32	-1.5	0.01	-1.7
A_55_P2173457	XM_001479022	1700097N02Rik	0.54	-1.3	0.42	-1.5	0.01	-1.7
A_51_P117618	NM_023154	Ethe1	0.17	-1.5	0.30	-1.5	0.01	-1.7
A_55_P2115955	NM_198193	Raet1e	0.83	-1.1	0.49	-1.4	0.01	-1.7
A_55_P2106241	NM_029045	4930432K21Rik	0.27	-1.4	0.79	-1.2	0.01	-1.7
A_52_P376360	NM_019971	Pdgfc	0.15	-1.4	0.22	-1.5	0.00	-1.7
A_51_P456208	NM_011575	Tff3	0.03	-2.2	0.24	-1.7	0.05	-1.8
A_30_P01021387	0	NA	0.10	-1.6	0.00	-2.4	0.01	-1.8
A_30_P01032489	0	NA	0.13	-1.7	0.06	-1.9	0.04	-1.8
A_51_P469951	NM_080448	Srgap3	0.80	-1.2	0.62	-1.4	0.03	-1.8
A_51_P228295	NM_001001880	Mpzl1	0.42	-1.4	0.39	-1.5	0.02	-1.8
A_55_P1999958	XM_001475982	Gm3185	0.27	-1.5	0.28	-1.5	0.01	-1.8
A_51_P275496	XM_001480912	BC026762	0.24	-1.5	0.27	-1.5	0.01	-1.8
A_66_P124052	NM_016778	Bok	0.56	-1.3	0.61	-1.4	0.01	-1.8
A_51_P415519	NM_026407	Tmem39a	0.27	-1.5	0.27	-1.5	0.01	-1.8
A_55_P2000148	NM_175138	Dnaic1	0.16	-1.5	0.32	-1.5	0.00	-1.8
A_51_P342871	NM_009112	S100a10	0.21	-1.5	0.28	-1.5	0.00	-1.8
A_55_P2031668	NM_013541	Gstp1	0.78	-1.2	0.84	-1.2	0.00	-1.8
A_66_P124715	NM_011145	Ppard	0.00	-1.8	0.00	-1.7	0.00	-1.9
A_30_P01017875	0	NA	0.39	-1.5	0.43	-1.6	0.03	-1.9
A_55_P2083307	NM_130890	Capn8	0.09	-1.9	0.78	-1.3	0.03	-1.9
A_52_P533146	NM_007837	Ddit3	0.24	-1.5	0.21	-1.6	0.01	-1.9
A_55_P2024530	NM_009174	Siah2	0.27	-1.6	0.22	-1.8	0.01	-1.9
A_55_P2182273	XM_001000082	NA	0.06	-1.7	0.22	-1.6	0.00	-1.9
A_55_P2043122	NM_028710	Arsg	0.16	-1.5	0.36	-1.4	0.00	-1.9
A_55_P2048259	NM_146133	Golph3l	0.38	-1.4	0.40	-1.5	0.00	-1.9
A_55_P1954436	XM_991070	Gm7967	0.15	-1.5	0.09	-1.5	0.00	-1.9
A_51_P489153	NM_023733	Crot	0.44	-1.4	0.43	-1.4	0.00	-1.9
A_55_P2055112	AB047758	Prss44	0.03	-2.2	0.65	-1.4	0.02	-2.0
A_55_P2102936	NM_001033225	Pnrc1	0.04	-1.6	0.03	-1.7	0.00	-2.0
A_55_P2332194	AK140090	Gm15998	0.76	-1.3	0.54	-1.5	0.04	-2.0
A_55_P1959748	NM_012055	Asns	0.89	-1.2	0.98	-1.0	0.04	-2.0
A_51_P341918	NM_009366	Tsc22d1	0.70	-1.3	0.20	-1.7	0.01	-2.0
A_51_P144349	NM_172442	Dtx4	0.48	-1.4	0.24	-1.7	0.01	-2.0
A_55_P2105858	NM_030693	Atf5	0.41	-1.4	0.17	-1.7	0.00	-2.0
A_51_P257675	NM_030203	Tspyl4	0.55	-1.3	0.56	-1.3	0.00	-2.0
A_51_P405606	NM_008681	Ndrgr1	0.56	-1.4	0.28	-1.7	0.00	-2.0

A_55_P2105416	NR_003624	Gm10319	0.11	-2.6	0.04	-3.2	0.19	-2.1
A_51_P315042	NM_016847	Avpr1a	0.36	-1.5	0.00	-2.7	0.00	-2.2
A_52_P161495	NM_009744	Bcl6	0.71	1.4	0.69	-1.5	0.04	-2.2
A_55_P2035320	NM_017373	Nfil3	0.14	-1.6	0.00	-2.1	0.00	-2.3
A_51_P351860	NM_009777	C1qb	0.92	-1.2	0.97	-1.1	0.04	-2.3
A_55_P2062589	NM_008639	Mtnr1a	0.03	-2.3	0.00	-2.7	0.00	-2.4
A_55_P2143923	NM_022411	Slc13a2	0.55	-1.4	0.00	-2.9	0.00	-2.4
A_51_P257885	NM_175217	Mmd2	0.65	-1.5	0.30	-2.1	0.04	-2.4
A_51_P267354	NM_175478	Lrfn3	0.31	-1.7	0.06	-2.3	0.01	-2.4
A_55_P2157008	NM_053112	Ear10	0.37	-1.7	0.45	-1.8	0.00	-2.4
A_51_P386539	NM_026301	Rnf125	0.17	-1.6	0.11	-1.9	0.00	-2.4
A_51_P304683	NM_011802	Clpx	0.18	-1.7	0.09	-2.1	0.00	-2.5
A_55_P1957918	NM_001135192	Asap2	0.11	-2.0	0.04	-2.6	0.00	-2.6
A_55_P2077783	NR_003964	Tubb2a-ps2	0.11	-2.1	0.00	-2.8	0.01	-2.6
A_51_P259296	NM_008509	Lpl	0.61	-1.4	0.61	-1.5	0.01	-2.6
A_55_P1956223	NM_013490	Chka	0.08	-1.9	0.03	-2.3	0.00	-2.7
A_52_P413947	NM_010840	Mthfr	0.14	-1.8	0.00	-2.3	0.00	-2.7
A_55_P2080956	NM_013490	Chka	0.06	-2.0	0.04	-2.4	0.00	-2.7
A_51_P440047	NM_173752	1110067D22Rik	0.25	-1.7	0.00	-2.4	0.00	-2.7
A_51_P350453	NM_013743	Pdk4	0.53	-1.6	0.00	-2.8	0.00	-2.7
A_55_P1982499	NM_177350	Gldn	0.04	-3.1	0.09	-3.2	0.05	-2.8
A_52_P329367	NM_001025566	Chka	0.00	-2.1	0.00	-3.0	0.00	-2.8
A_30_P01018128	0	NA	0.53	-1.4	0.00	-2.3	0.00	-2.8
A_52_P30451	NM_016854	Ppp1r3c	0.26	-2.1	0.00	-4.0	0.02	-2.8
A_51_P455338	NM_053113	Ear11	0.21	-2.4	0.39	-2.2	0.03	-3.1
A_52_P381484	NM_133903	Spon2	0.03	-2.2	0.10	-2.1	0.00	-3.2
A_51_P439452	NM_133748	Insig2	0.14	-1.9	0.09	-2.1	0.00	-3.2
A_51_P142923	NM_013490	Chka	0.03	-2.2	0.00	-3.0	0.00	-3.3
A_52_P2710	NM_023493	Cml5	0.77	-1.4	0.03	-3.4	0.00	-3.4
A_51_P490023	NM_009450	Tubb2a	0.20	-2.3	0.00	-3.8	0.01	-3.5
A_55_P1957624	NM_178082	Insig2	0.14	-2.0	0.12	-2.2	0.00	-4.2
A_51_P447545	NM_008341	Igfbp1	0.22	-2.8	0.50	-2.3	0.00	-4.6
A_55_P2408588	NM_007489	Arntl	0.16	-2.4	0.00	-4.2	0.00	-5.1

3.2.7 IP Liver. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 12.5, 25, and 50 mg/kg-bw/day indeno(123,cd)pyrene in the liver. The list is sorted from highest to lowest fold change in the 50 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	12.5 mg/kg-bw/day		25 mg/kg-bw/day		50 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_51_P141535	NM_016978	Oat	1.00	1.4	0.73	1.5	0.00	2.1
A_51_P360492	NM_008567	Mcm6	1.00	-1.2	0.95	1.3	0.00	2.0
A_55_P1987439	NM_133779	Pigt	1.00	1.0	0.99	1.0	0.04	2.0
A_51_P464918	NM_019453	Mefv	1.00	1.1	0.66	1.4	0.04	1.7
A_51_P215489	NM_153062	Slc37a1	1.00	1.3	0.95	1.2	0.04	1.7
A_55_P2027392	NM_030258	Gpr146	1.00	1.1	0.92	1.2	0.00	1.5

A_55_P1985623	NM_029600	Abcc3	1.00	1.2	0.00	1.5	0.11	1.4
A_55_P2139009			1.00	-1.2	0.00	-1.5	0.44	-1.2
A_55_P1974542	NM_198612	Gxylt2	1.00	-1.2	0.00	-1.5	0.59	-1.2
A_55_P2108143	XM_001480454	LOC100048588	1.00	-1.2	0.00	-1.6	0.18	-1.4
A_55_P2106394	NM_026412	D2Ertd750e	1.00	-1.3	0.00	-1.5	0.11	-1.5
A_30_P01027755			1.00	-1.3	0.95	-1.2	0.00	-1.5
A_55_P2048259	NM_146133	Golph3l	1.00	-1.2	0.92	-1.2	0.00	-1.5
A_30_P01032612			1.00	-1.3	0.73	-1.3	0.00	-1.5
A_55_P2127174	NM_170759	Zfp628	1.00	-1.2	0.51	-1.3	0.00	-1.5
A_30_P01030745			1.00	-1.2	0.96	-1.0	0.00	-1.5
A_51_P453475	NM_009201	Slc1a5	0.00	-1.3	0.05	-1.4	0.00	-1.5
A_55_P1988260	XM_001479382	LOC100048847	1.00	-1.2	0.45	-1.3	0.00	-1.5
A_55_P2078123	NM_013646	Rora	1.00	-1.1	0.95	-1.1	0.04	-1.5
A_55_P2158522	NM_183355	Pbx1	1.00	-1.3	0.41	-1.4	0.00	-1.6
A_30_P01022751			1.00	-1.3	0.31	-1.4	0.00	-1.6
A_55_P2183672	NM_018858	Pebp1	1.00	-1.2	0.32	-1.3	0.00	-1.6
A_30_P01029815			1.00	-1.3	0.86	-1.3	0.04	-1.6
A_30_P01020476			1.00	-1.3	0.40	-1.4	0.00	-1.7
A_30_P01026230			1.00	-1.2	0.42	-1.4	0.00	-1.7
A_55_P2014978	NM_007889	Dvl3	1.00	-1.3	0.73	-1.4	0.00	-1.8
A_30_P01032942			1.00	-1.3	0.31	-1.5	0.00	-1.8
A_55_P2230506	AK016424	4931402H11Rik	1.00	-1.5	0.95	-1.3	0.00	-1.8
A_55_P2031898	XM_001475136	LOC100045902	1.00	-1.2	0.39	-1.5	0.00	-1.8
A_30_P01024297			1.00	-1.3	0.30	-1.5	0.04	-1.8
A_30_P01022987			1.00	-1.4	0.95	-1.4	0.00	-1.9
A_52_P311031	AK016943		1.00	-1.4	0.19	-1.6	0.00	-1.9
A_55_P2086433	NM_145209	Oasl1	1.00	-1.5	0.00	-2.6	0.09	-2.1
A_66_P138976	NM_001164885	Lpin2	1.00	-1.2	0.95	-1.3	0.04	-2.1
A_55_P2042778	NM_153422	Pde5a	1.00	-1.3	0.73	-2.1	0.00	-3.5
A_51_P456208	NM_011575	Tff3	1.00	-2.7	0.05	-5.5	0.04	-5.4

3.3 LUNG

3.3.1 BaA Lung. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 20, 40, and 80 mg/kg-bw/day benz(a)anthracene in the lung. The list is sorted from highest to lowest fold change in the 80 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	20 mg/kg-bw/day		40 mg/kg-bw/day		80 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_55_P2142226	NM_001034870	Serpina3h	0.08	8.0	0.51	2.5	0.00	8.0
A_55_P2032081	NM_016974	Dbp	0.54	1.6	0.00	2.8	0.00	3.5
A_55_P2032079	NM_016974	Dbp	0.52	1.6	0.00	2.7	0.00	3.5
A_51_P326191	NM_009251	Serpina3g	0.06	2.9	0.11	2.1	0.00	3.5
A_30_P01021631			0.90	-1.2	0.00	2.3	0.00	3.3
A_51_P234692	NR_003513	Neat1	0.89	-1.2	0.00	2.3	0.00	3.1
A_55_P1966774	XM_893705	Gm6930	0.08	3.5	0.61	1.5	0.01	3.1
A_30_P01025798			0.84	-1.2	0.01	2.0	0.00	2.9

A_55_P2157872	NM_001079695	Sfrs5	0.14	1.4	0.00	2.3	0.00	2.8
A_30_P01023251			0.84	-1.2	0.00	2.0	0.00	2.7
A_30_P01020135			0.81	-1.2	0.01	1.9	0.00	2.6
A_30_P01031894			0.98	-1.0	0.00	1.9	0.00	2.6
A_66_P124254	AK046653		0.80	1.2	0.00	2.0	0.00	2.5
A_30_P01029720			0.75	-1.3	0.03	1.9	0.00	2.5
A_55_P1964648	NM_001037719	Btla	0.28	1.6	0.00	2.4	0.00	2.5
A_51_P487818	NM_017399	Fabp1	0.63	1.4	0.04	1.8	0.00	2.5
A_51_P267933	NM_175692	Snhg11	0.95	1.1	0.34	1.6	0.00	2.5
A_30_P01022612			0.97	-1.0	0.00	1.8	0.00	2.4
A_51_P272106	NM_007705	Cirbp	0.58	1.3	0.00	1.8	0.00	2.4
A_51_P170959	AK005011	Proz	0.78	1.3	0.33	1.5	0.00	2.4
A_30_P01018771			0.99	-1.0	0.00	1.9	0.00	2.3
A_55_P2036495			0.58	1.2	0.00	1.8	0.00	2.3
A_55_P2115442	NM_053109	Clec2d	0.98	-1.0	0.00	2.0	0.00	2.3
A_30_P01030953			1.00	-1.0	0.00	2.0	0.00	2.2
A_55_P2018191	NM_145536	BC020535	0.11	1.5	0.00	1.8	0.00	2.2
A_52_P151240	XM_973835	Fam150a	0.74	1.3	0.11	1.7	0.00	2.2
A_55_P2116993	NM_016690	Hnrpd1	0.94	1.0	0.00	1.9	0.00	2.2
A_55_P1974452	NM_023684	Lime1	0.78	1.2	0.00	1.9	0.00	2.2
A_55_P2131964	NM_001081070	Pdia2	0.94	1.1	0.00	1.6	0.00	2.2
A_55_P2279807	AK160312	6720427I07Rik	0.93	-1.1	0.00	1.9	0.00	2.2
A_52_P38964	NM_001081962	Sap25	0.96	-1.0	0.00	1.8	0.00	2.2
A_52_P469789	NM_007588	Calcr	0.53	1.3	0.57	1.2	0.00	2.1
A_55_P2102419	NM_023684	Lime1	0.78	1.1	0.00	1.7	0.00	2.1
A_51_P360492	NM_008567	Mcm6	0.80	1.2	0.02	1.9	0.00	2.1
A_55_P2054098	XM_001475988	Gm9495	0.63	1.2	0.00	1.7	0.00	2.1
A_55_P2107155	NM_029182	Rasd2	0.56	1.4	0.00	1.9	0.00	2.1
A_55_P2032232	NM_011268	Rgs9	0.47	1.3	0.00	1.8	0.00	2.1
A_55_P1955078	NM_145580	Tmem149	0.33	1.3	0.00	1.9	0.00	2.1
A_51_P247542	NM_172799	Ttll6	0.99	1.0	0.03	1.6	0.00	2.1
A_30_P01022284			0.98	1.0	0.04	1.5	0.00	2.0
A_30_P01023697			0.86	1.1	0.06	1.6	0.00	2.0
A_55_P1990663	NM_007840	Ddx5	0.86	1.1	0.00	1.6	0.00	2.0
A_55_P2274378	AK035112	AW549542	0.93	1.1	0.01	1.7	0.00	2.0
A_55_P2071354	NM_177087	Fam179a	0.99	1.0	0.09	1.5	0.00	2.0
A_51_P362176	NM_133862	Fgg	0.80	1.3	0.55	1.3	0.00	2.0
A_51_P249313	NM_028705	Herc3	0.75	1.2	0.00	1.7	0.00	2.0
A_55_P2009752	NM_172563	Hlf	0.91	1.1	0.23	1.6	0.01	2.0
A_55_P2082929	NM_010389	H2-Ob	0.56	1.3	0.00	2.0	0.00	2.0
A_55_P2293351	AK082896	C430010C01	0.96	1.0	0.00	1.7	0.00	2.0
A_55_P2059019	NM_001163447	Mapk8ip3	0.99	1.0	0.00	1.7	0.00	2.0
A_55_P2129348	NM_153510	Pilra	0.04	1.8	0.00	1.7	0.00	2.0
A_55_P2408330	NM_028234	Prr8	0.99	1.0	0.00	1.6	0.00	2.0
A_55_P2095271	NM_153805	Pkn3	0.36	1.2	0.00	1.7	0.00	2.0
A_55_P2000409	NM_001002786	Rab44	0.28	1.4	0.00	1.7	0.00	2.0
A_66_P139946	XM_976924	E030019B13Rik	0.83	1.1	0.01	1.6	0.00	2.0
A_55_P2104975	NM_001168294	Serpina3f	0.52	1.7	0.10	1.9	0.03	2.0
A_30_P01027042			0.96	-1.0	0.01	1.7	0.00	1.9

A_52_P1016836	AV256778		0.99	1.0	0.00	1.7	0.00	1.9
A_30_P01025102			0.93	-1.1	0.00	1.7	0.00	1.9
A_55_P2181634	AV253706		0.99	-1.0	0.01	1.6	0.00	1.9
A_30_P01022593			0.96	1.0	0.00	1.6	0.00	1.9
A_55_P2177463	AK045070		0.95	-1.0	0.00	1.6	0.00	1.9
A_30_P01024984			0.91	-1.1	0.03	1.5	0.00	1.9
A_52_P390944	NM_016803	Chst3	0.64	1.2	0.00	1.8	0.00	1.9
A_55_P2079079	NM_009844	Cd19	0.73	1.2	0.00	2.2	0.00	1.9
A_55_P2154982	NM_009858	Cd8b1	0.55	1.6	0.34	1.5	0.03	1.9
A_55_P1969356	NM_145536	BC020535	0.36	1.4	0.00	1.7	0.00	1.9
A_55_P1981836	NM_145536	BC020535	0.67	1.2	0.02	1.6	0.00	1.9
A_52_P340408	NM_001039495	Ccdc108	0.96	-1.0	0.26	1.3	0.00	1.9
A_55_P2025675	NM_013811	Dnahc8	0.28	1.3	0.00	1.6	0.00	1.9
A_51_P155323	NM_010406	Hc	0.94	1.1	0.03	1.6	0.00	1.9
A_51_P449325	NM_008206	H2-Oa	0.11	1.4	0.00	1.9	0.00	1.9
A_55_P1958480	BC089308	LOC545005	0.86	1.1	0.00	1.5	0.00	1.9
A_51_P479352	NM_001033039	Klhdc9	0.85	1.1	0.05	1.4	0.00	1.9
A_52_P282500	NM_001039472	Kif21b	0.09	1.4	0.00	1.8	0.00	1.9
A_55_P2040815	NM_153545	Lrrc45	0.95	1.0	0.00	1.6	0.00	1.9
A_55_P1954231	NM_172492	Lrtm2	0.87	1.2	0.20	1.5	0.00	1.9
A_51_P258493	NM_011067	Per3	0.91	1.1	0.11	1.5	0.00	1.9
A_55_P2000354	NM_001081069	Rgs11	0.75	-1.2	0.05	1.5	0.00	1.9
A_55_P1969032	NM_011268	Rgs9	0.30	1.4	0.00	1.8	0.00	1.9
A_55_P1979893	NM_017376	Tef	0.96	1.1	0.10	1.6	0.00	1.9
A_51_P483576	AF138742		0.23	1.9	0.01	2.4	0.03	1.8
A_55_P2057283	AY170502		0.18	2.1	0.00	2.4	0.07	1.8
A_52_P308875	AK049998		0.96	1.1	0.00	2.3	0.02	1.8
A_30_P01021037			1.00	1.0	0.00	1.7	0.00	1.8
A_66_P115580	AK076360		0.11	1.4	0.00	1.6	0.00	1.8
A_30_P01025159			0.89	1.1	0.00	1.5	0.00	1.8
A_30_P01031112			0.97	-1.0	0.00	1.5	0.00	1.8
A_30_P01025535			0.93	-1.1	0.99	-1.0	0.02	1.8
A_30_P01018104			0.95	1.1	0.09	1.4	0.00	1.8
A_30_P01033086			0.94	1.0	0.01	1.4	0.00	1.8
A_55_P1988689	AK131832		0.80	1.2	0.23	1.4	0.00	1.8
A_55_P1985001			1.00	-1.0	0.16	1.4	0.00	1.8
A_52_P625277	NM_183220	Accs	0.20	1.2	0.00	1.5	0.00	1.8
A_55_P2049717	NM_007427	Agrp	0.96	1.0	0.05	1.5	0.00	1.8
A_52_P467449	NM_007440	Alox12	0.04	2.0	0.12	1.6	0.01	1.8
A_55_P2081164	NM_001169153	Cd300lf	0.28	1.5	0.31	1.4	0.01	1.8
A_52_P445387	NM_007714	Clk4	0.97	1.0	0.00	1.7	0.00	1.8
A_55_P2171008	NM_007714	Clk4	0.97	1.0	0.00	1.6	0.00	1.8
A_52_P679152	NM_001042634	Clk1	0.98	1.0	0.00	1.5	0.00	1.8
A_52_P70796	NM_007551	Cxcr5	0.19	1.5	0.00	1.8	0.00	1.8
A_66_P115531	NM_145151	Crebzf	0.99	-1.0	0.02	1.5	0.00	1.8
A_51_P284426	NM_030137	Cstad	0.06	1.5	0.00	1.7	0.00	1.8
A_51_P386304	NM_207678	Ccnl2	1.00	1.0	0.01	1.5	0.00	1.8
A_52_P51429	NM_153551	Dennd1c	0.48	1.3	0.00	1.5	0.00	1.8
A_51_P435339	NM_010149	Epor	0.57	1.2	0.00	1.7	0.00	1.8

A_51_P407879	NM_145382	Fam193b	1.00	-1.0	0.01	1.6	0.00	1.8
A_55_P2066230	NM_010407	Hck	0.50	1.5	0.51	1.3	0.01	1.8
A_51_P520966	NM_015790	Icosl	0.73	1.1	0.00	1.6	0.00	1.8
A_55_P2077053	NM_018746	Itih4	0.48	1.5	0.75	1.2	0.01	1.8
A_55_P2149500	NM_010630	Kifc2	0.99	1.0	0.00	1.6	0.00	1.8
A_55_P2063256	NM_010706	Lgals4	0.99	-1.0	0.07	1.5	0.00	1.8
A_51_P497100	NM_010706	Lgals4	0.94	-1.1	0.10	1.4	0.00	1.8
A_51_P279437	NM_029662	Mfsd2a	0.92	1.1	0.56	1.3	0.02	1.8
A_51_P341725	NM_008588	Mesp1	0.82	1.2	0.10	1.4	0.00	1.8
A_51_P163953	NM_008741	Nsg2	0.83	1.2	0.53	1.3	0.02	1.8
A_51_P261107	NM_139144	Ogt	0.94	-1.0	0.00	1.5	0.00	1.8
A_51_P282760	NM_011066	Per2	0.96	1.1	0.52	1.3	0.01	1.8
A_52_P63343	NM_001033302	Gm129	0.93	1.1	0.21	1.4	0.00	1.8
		ENSMUSG0000006879						
A_55_P2030282	NM_001029930	0	0.94	1.1	0.04	1.4	0.00	1.8
A_51_P215438	NM_011172	Prodh	0.90	1.1	0.01	1.5	0.00	1.8
A_55_P2133057	NM_001081070	Pdia2	0.96	1.0	0.04	1.5	0.00	1.8
A_55_P2039225	NM_001081155	Rap1gap	0.19	1.3	0.00	1.7	0.00	1.8
A_52_P574759	NM_009036	Rbpjl	0.97	1.0	0.42	1.3	0.01	1.8
A_55_P2002319	NM_027129	2310035K24Rik	0.79	1.3	0.83	1.1	0.03	1.8
A_52_P613498	NM_026127	4833420G17Rik	0.99	-1.0	0.00	1.7	0.00	1.8
A_55_P2022499	NM_025669	Sfrs18	1.00	-1.0	0.02	1.6	0.00	1.8
A_55_P2141306	NM_025292	Synj2bp	0.78	1.2	0.04	1.4	0.00	1.8
A_51_P295420	NM_145931	Zc3h7a	0.98	1.0	0.00	1.5	0.00	1.8
A_55_P2145224	AF290571		0.28	1.8	0.00	2.3	0.05	1.7
A_30_P01020858			0.58	1.2	0.00	1.7	0.00	1.7
A_30_P01032392			0.89	1.1	0.00	1.6	0.00	1.7
A_30_P01028387			0.98	-1.0	0.00	1.6	0.00	1.7
A_30_P01027568			0.98	-1.0	0.74	1.2	0.01	1.7
A_30_P01030240			0.78	-1.2	0.88	1.1	0.01	1.7
A_30_P01028753			0.85	1.2	0.54	1.3	0.01	1.7
A_30_P01018881			0.99	1.0	0.22	1.3	0.00	1.7
A_30_P01024344			1.00	-1.0	0.46	1.2	0.00	1.7
A_30_P01033468			0.69	1.2	0.03	1.4	0.00	1.7
A_66_P106716	NM_019774	Akap8	0.83	1.1	0.00	1.6	0.00	1.7
A_51_P108581	NM_177078	Adrbk2	0.83	1.1	0.02	1.4	0.00	1.7
A_52_P645862	NM_177322	Agtr1a	0.81	1.1	0.08	1.4	0.00	1.7
A_51_P365903	NM_026187	Ankzf1	0.65	1.1	0.00	1.4	0.00	1.7
A_66_P127175	NM_177268	Ankrd16	0.90	-1.1	0.07	1.4	0.00	1.7
A_55_P2089091	NM_178278	Caps2	0.70	1.2	0.01	1.5	0.00	1.7
A_51_P342652	NM_008339	Cd79b	0.41	1.3	0.00	2.1	0.00	1.7
A_65_P03022	NM_172587	Cdc14b	0.72	1.1	0.00	1.4	0.00	1.7
A_55_P2132403	NM_198170	BC059842	0.67	1.2	0.01	1.5	0.00	1.7
A_52_P329054	NM_023873	Cep70	1.00	-1.0	0.15	1.4	0.00	1.7
A_55_P1987904	AK138814	Chpf2	0.99	1.0	0.02	1.5	0.00	1.7
A_55_P2092904	NM_028119	Ddb2	0.98	1.0	0.02	1.4	0.00	1.7
A_52_P611798	NM_007840	Ddx5	0.70	1.1	0.00	1.6	0.00	1.7
A_52_P226127	NM_011805	Dido1	0.91	-1.1	0.00	1.5	0.00	1.7
A_55_P2106180	NM_001081330	Dnahc2	0.97	-1.0	0.28	1.4	0.00	1.7

A_55_P2079158	NM_177894	Fam154b	0.98	1.0	0.05	1.5	0.00	1.7
A_55_P2059337	NM_023229	Fastk	0.48	1.4	0.00	1.9	0.00	1.7
A_55_P1964664	NM_139149	Fus	0.52	1.2	0.00	1.5	0.00	1.7
A_55_P2156653	AK156069	Gpr174	0.73	1.1	0.00	1.5	0.00	1.7
A_52_P16232	NM_019439	Gabbr1	0.90	-1.1	0.13	1.4	0.00	1.7
A_51_P322972	NM_145419	Hkdc1	0.49	1.4	0.18	1.4	0.00	1.7
A_55_P2009187	NM_001039669	Iffo1	0.87	1.1	0.01	1.5	0.00	1.7
A_66_P128434	NM_001122733	Kit	0.56	1.4	0.18	1.5	0.02	1.7
A_51_P501453	NM_022430	Ms4a8a	0.34	1.4	0.22	1.3	0.01	1.7
A_55_P2347976	NR_029382	Mirhg1	0.96	-1.0	0.01	1.5	0.00	1.7
A_52_P333097	AK033008	Mcoln3	0.48	1.5	0.88	1.1	0.03	1.7
A_55_P1955015	NM_178440	Myo1g	0.23	1.4	0.02	1.5	0.00	1.7
A_52_P357484	NM_172766	Nfrkb	0.83	1.1	0.00	1.4	0.00	1.7
A_51_P383194	NM_008804	Pde9a	0.54	1.3	0.00	1.6	0.00	1.7
A_66_P129710	NM_175437	Pion	0.78	1.2	0.18	1.4	0.00	1.7
A_51_P356265	NM_016845	Acrbp	0.95	-1.0	0.03	1.5	0.00	1.7
A_55_P2105638	NM_001033348	Ralgapa2	0.77	1.1	0.00	1.5	0.00	1.7
A_55_P2068096	NM_001081155	Rap1gap	0.23	1.3	0.00	1.6	0.00	1.7
A_51_P339822	NM_138630	Arhgap4	0.38	1.3	0.00	1.5	0.00	1.7
A_51_P258473	NM_001081121	4931429I11Rik	0.93	1.1	0.03	1.6	0.00	1.7
A_55_P2283310	AK039829	5830428M24Rik	0.95	1.0	0.28	1.3	0.00	1.7
A_55_P2372228	DT902180	A430104N18Rik	0.81	1.1	0.01	1.6	0.00	1.7
A_55_P2367415	AK035805	A630026N12Rik	0.99	-1.0	0.07	1.4	0.00	1.7
A_55_P2340448	AK045415	B230114P17Rik	0.75	1.2	0.01	1.6	0.00	1.7
A_51_P267278	NM_021301	Slc15a2	0.99	1.0	0.00	1.6	0.00	1.7
A_52_P19016	NM_016680	Sfrs16	0.94	1.0	0.01	1.5	0.00	1.7
A_55_P2083098	NM_001163421	Tatdn3	0.93	1.0	0.05	1.3	0.00	1.7
A_55_P2007713	NM_053082	Tspan4	0.59	1.4	0.33	1.4	0.01	1.7
A_66_P124146	NM_177384	Ttc16	0.94	-1.1	0.09	1.5	0.00	1.7
A_51_P316951	NM_001167860	Wipf3	0.41	1.3	0.05	1.4	0.00	1.7
A_55_P2044252	NM_001164597	Znf512b	0.79	1.1	0.00	1.5	0.00	1.7
A_55_P2072233	NM_028325	Zcchc12	0.98	-1.0	0.33	1.5	0.04	1.7
A_55_P2088145			0.00	2.0	0.06	1.6	0.01	1.6
A_55_P2111322	AY170578		0.10	1.9	0.00	2.1	0.04	1.6
A_30_P01031844			0.34	1.3	0.00	1.9	0.00	1.6
A_30_P01024593			0.97	1.0	0.05	1.6	0.01	1.6
A_30_P01027066			0.86	1.1	0.05	1.5	0.01	1.6
A_30_P01029746			0.99	-1.0	0.04	1.5	0.01	1.6
A_30_P01019380			0.86	1.1	0.02	1.5	0.00	1.6
A_30_P01027782			0.98	1.0	0.01	1.5	0.00	1.6
A_55_P2085940	AK165743		0.71	1.1	0.00	1.5	0.00	1.6
A_30_P01031674			0.80	-1.2	0.97	-1.0	0.02	1.6
A_30_P01030888			0.83	-1.2	0.88	-1.1	0.02	1.6
A_30_P01030677			0.99	1.0	0.21	1.4	0.01	1.6
A_30_P01032960			0.85	1.1	0.00	1.4	0.00	1.6
A_55_P2144476			0.83	1.1	0.04	1.3	0.00	1.6
A_30_P01032788			0.92	-1.1	0.07	1.4	0.00	1.6
A_51_P378381	AK017076		0.92	-1.1	0.23	1.3	0.00	1.6
A_66_P138567			0.80	1.1	0.05	1.4	0.00	1.6

A_30_P01019990			0.90	1.1	0.11	1.3	0.00	1.6
A_30_P01029835			0.78	1.1	0.03	1.4	0.00	1.6
A_30_P01028297			0.99	1.0	0.05	1.4	0.00	1.6
A_55_P2016316	NM_011917	Xrn2	0.50	1.2	0.01	1.3	0.00	1.6
A_55_P2065926	NM_017476	Akap8l	0.98	-1.0	0.08	1.3	0.00	1.6
A_51_P179907	NM_145220	Appl2	0.93	1.1	0.17	1.3	0.00	1.6
A_55_P2101776	NM_001008533	Adora1	0.74	1.2	0.00	1.5	0.00	1.6
A_52_P586141	NM_001037724	Adcy7	0.75	1.2	0.20	1.3	0.00	1.6
A_55_P1992849	NM_013462	Adrb3	0.90	1.1	0.06	1.6	0.02	1.6
A_55_P1988010	NM_001164727	LOC100038847	0.94	1.0	0.04	1.2	0.00	1.6
A_55_P2002849	NM_175178	Aifm3	0.69	1.2	0.08	1.3	0.00	1.6
A_51_P247249	NM_009662	Alox5	0.23	1.5	0.39	1.3	0.00	1.6
A_52_P330359	NM_178755	Agbl2	0.86	1.1	0.00	1.4	0.00	1.6
A_52_P277104	NM_001033350	Bank1	0.55	1.3	0.00	1.8	0.01	1.6
A_55_P2162324	NM_009759	Bmx	0.97	-1.0	0.29	1.3	0.00	1.6
A_55_P2036472	NM_001161832	T2	0.72	-1.2	0.20	1.2	0.00	1.6
A_51_P316042	NM_175362	Card11	0.68	1.2	0.07	1.3	0.00	1.6
A_52_P422494	NM_145634	Cd300lf	0.40	1.5	0.37	1.4	0.01	1.6
A_55_P2060072	NM_007712	Clk2	0.90	1.1	0.17	1.3	0.00	1.6
A_51_P331752	NM_011330	Ccl11	0.90	1.1	0.34	1.3	0.01	1.6
A_55_P2023542	NM_007719	Ccr7	0.72	1.2	0.02	1.6	0.01	1.6
A_52_P35304	NM_007692	Chkb	0.96	-1.0	0.00	1.5	0.00	1.6
A_55_P2169415	NM_001037711	Cgn	0.91	1.1	0.62	1.2	0.00	1.6
A_55_P2086860	NM_207280	Ccdc121	0.99	1.0	0.29	1.4	0.02	1.6
A_55_P2004711	NM_177088	Ccdc45	0.93	1.0	0.00	1.5	0.00	1.6
A_55_P2079922	NM_001165929	Ccdc78	0.85	-1.1	0.13	1.3	0.00	1.6
A_55_P1971724	NM_007758	Cr2	0.30	1.3	0.00	1.7	0.00	1.6
A_52_P624434	NM_175526	Clec1a	0.87	1.1	0.34	1.3	0.01	1.6
A_55_P2099980	NM_001081335	Cul9	0.39	1.2	0.00	1.4	0.00	1.6
A_51_P109258	NM_138686	Cys1	1.00	1.0	0.59	1.2	0.02	1.6
A_51_P255456	NM_009994	Cyp1b1	0.04	2.5	0.49	1.4	0.16	1.6
A_55_P1957957	NM_027883	Dhx34	0.71	1.1	0.01	1.3	0.00	1.6
A_55_P2184023	XM_355197	Dnahc7a	0.89	1.1	0.83	-1.1	0.00	1.6
A_55_P2111355	NM_178444	Egfl7	0.92	1.1	0.00	1.5	0.00	1.6
A_51_P455807	NM_133838	Ehd4	0.91	1.1	0.05	1.4	0.00	1.6
A_51_P115005	NM_010104	Edn1	0.60	1.3	0.15	1.4	0.01	1.6
A_51_P214269	NM_023580	Epha1	1.00	1.0	0.00	1.4	0.00	1.6
A_55_P2037454	NM_023794	Etv5	0.70	1.2	0.01	1.5	0.00	1.6
A_55_P2011877	NM_012011	Eif2s3y	0.72	1.2	0.63	1.2	0.01	1.6
A_55_P2150741	NM_177788	Exoc3l	0.30	1.3	0.07	1.4	0.00	1.6
A_55_P2255449	AK033778	Al663975	0.55	1.2	0.00	1.6	0.00	1.6
A_51_P140641	NM_145570	Fam176a	0.67	1.2	0.04	1.5	0.00	1.6
A_51_P153063	NM_029310	Fabp12	0.75	1.2	0.27	1.3	0.01	1.6
A_51_P154485	NM_145141	Fcrla	0.71	1.3	0.00	1.8	0.04	1.6
A_55_P2145506	U04807	Flt3l	0.90	1.1	0.08	1.3	0.00	1.6
A_55_P2128646	NM_020567	Gmnn	0.80	1.1	0.02	1.4	0.00	1.6
A_55_P2073084	NM_027901	Gtf3c2	0.66	1.1	0.00	1.4	0.00	1.6
A_52_P351669	NM_027375	Gcc2	0.56	1.2	0.00	1.5	0.00	1.6
A_51_P124089	NM_019581	Gtpbp2	0.95	1.0	0.01	1.4	0.00	1.6

A_55_P2159600	NM_145617	Herc1	0.91	1.1	0.00	1.4	0.00	1.6
A_52_P283910	NM_016690	Hnrpd1	0.94	1.0	0.00	1.4	0.00	1.6
A_55_P2135064	NM_008204	H2-M2	0.63	1.4	0.46	1.3	0.04	1.6
A_55_P1982762	NM_133943	Hsd3b7	0.10	1.4	0.00	1.5	0.00	1.6
A_55_P2054708	XM_001473132	LOC100044824	0.93	-1.1	0.03	1.5	0.00	1.6
A_55_P2087622	NM_010215	Il4i1	0.12	1.5	0.05	1.4	0.00	1.6
A_55_P2004084	NM_028833	lqce	0.66	1.2	0.01	1.4	0.00	1.6
A_55_P2113498	NM_010654	Klrd1	0.84	1.2	0.04	1.7	0.03	1.6
A_55_P1980986	NM_001001492	Lca5l	0.44	1.3	0.01	1.4	0.00	1.6
A_55_P2063257	NM_010706	Lgals4	0.99	-1.0	0.26	1.3	0.01	1.6
A_51_P130079	NM_008511	Lrmp	0.63	1.2	0.00	1.6	0.00	1.6
A_66_P132222	NM_053015	Mlph	0.56	1.2	0.00	1.5	0.00	1.6
A_52_P167278	NM_172308	Mthfd1l	0.68	1.2	0.42	1.2	0.00	1.6
A_52_P204689	NM_009006	Map4k2	0.83	1.1	0.04	1.4	0.00	1.6
A_55_P2076866	NM_001162977	Megf6	0.70	1.2	0.11	1.3	0.00	1.6
A_51_P246387	NM_010918	Nktr	0.91	-1.1	0.01	1.4	0.00	1.6
A_55_P2021565	NM_001164034	Ntf3	0.57	1.2	0.00	1.5	0.00	1.6
A_55_P2050268	NM_172142	Nfkbid	0.35	1.3	0.02	1.5	0.00	1.6
A_55_P2148534	BC096461	Nr1d2	0.72	1.2	0.05	1.5	0.02	1.6
A_51_P521374	NM_026341	Nudt13	0.95	1.0	0.01	1.4	0.00	1.6
A_55_P2146002	NM_172990	Pank4	0.91	1.1	0.03	1.4	0.00	1.6
A_55_P1987439	NM_133779	Pigt	0.96	-1.0	0.98	1.0	0.03	1.6
A_66_P122158	NR_003518	Pisd-ps3	0.84	-1.1	0.53	1.2	0.01	1.6
A_55_P2014755	NM_001110796	Pclo	0.89	1.1	0.03	1.4	0.00	1.6
A_55_P2069592	NM_001024927	Pitpnm3	0.94	1.1	0.11	1.4	0.00	1.6
A_55_P2108708	NM_020574	Kcne3	0.48	1.4	0.18	1.4	0.02	1.6
A_55_P1986341	NR_002858	Gm4956	0.82	-1.2	0.73	-1.2	0.04	1.6
A_55_P2128456	XM_001477292	Gm9571	0.97	1.0	0.03	1.4	0.00	1.6
A_52_P107234	NM_177806	Prpf39	0.88	1.1	0.00	1.4	0.00	1.6
A_51_P250358	NM_177806	Prpf39	1.00	-1.0	0.07	1.3	0.00	1.6
A_55_P2053958	NM_030566	Rabep2	0.77	1.1	0.00	1.4	0.00	1.6
A_52_P378968	NM_009061	Rgs2	0.83	1.2	0.06	1.5	0.01	1.6
A_55_P2137431	NM_001001882	Rtel1	0.99	1.0	0.09	1.3	0.00	1.6
A_55_P2340593	AK007545	1810019D21Rik	0.75	-1.2	0.50	1.2	0.01	1.6
A_55_P2180481	XM_001478842	1810020O05Rik	1.00	1.0	0.06	1.4	0.00	1.6
A_55_P2126448	NR_027821	1810032O08Rik	0.88	-1.1	0.03	1.5	0.00	1.6
A_55_P2092364	NM_001039552	2210404J11Rik	0.44	1.1	0.00	1.4	0.00	1.6
A_55_P2373852	AK009987	2310058N22Rik	0.82	1.3	0.04	1.9	0.08	1.6
A_51_P157270	XM_126991	3830431G21Rik	0.83	1.1	0.10	1.3	0.00	1.6
A_55_P2144597	NM_001123370	9030025P20Rik	0.95	1.0	0.09	1.3	0.00	1.6
A_52_P337427	NM_027829	9030607L17Rik	1.00	-1.0	0.27	1.3	0.00	1.6
A_55_P2361652	AK088035	C230085N15Rik	0.65	1.4	0.44	1.3	0.04	1.6
A_55_P2029892	XM_916666	E030019B06Rik	0.97	1.0	0.43	1.3	0.01	1.6
A_55_P2010197	NM_144834	Serpina10	0.23	1.5	0.05	1.6	0.01	1.6
A_51_P424641	NM_001167691	Sirt4	0.97	1.0	0.02	1.3	0.00	1.6
A_51_P349727	NM_134154	Slc25a45	0.28	1.2	0.00	1.5	0.00	1.6
A_51_P113403	NM_178743	Slc26a11	0.57	1.2	0.01	1.4	0.00	1.6
A_55_P2094706	NM_011441	Sox17	0.73	1.3	0.24	1.5	0.04	1.6
A_52_P550147	AJ584850	Sned1	0.92	-1.1	0.17	1.3	0.00	1.6

A_52_P681488	NM_026343	Stx17	0.61	1.2	0.00	1.4	0.00	1.6
A_51_P267314	NM_178650	Tbc1d10c	0.91	1.1	0.07	1.5	0.00	1.6
A_55_P2168168	NM_031384	Tex11	0.28	1.4	0.01	1.5	0.00	1.6
A_51_P336721	NM_025372	Tipin	0.30	1.3	0.00	1.7	0.00	1.6
A_51_P368591	NM_053254	Tle6	0.99	-1.0	0.08	1.3	0.00	1.6
A_55_P2079103	NM_133992	Usp52	0.98	-1.0	0.00	1.5	0.00	1.6
A_66_P139647	NM_177697	Vwa3a	0.74	-1.2	0.34	1.3	0.00	1.6
A_51_P394847	NR_024599	Gm11346	0.09	1.4	0.01	1.5	0.00	1.6
A_55_P2034250	NM_001013786	Zfp187	0.79	1.1	0.01	1.5	0.00	1.6
A_52_P207635	NM_001033261	Zfc3h1	1.00	-1.0	0.02	1.4	0.00	1.6
A_55_P2122688	NM_019831	Zmym3	0.86	1.1	0.00	1.4	0.00	1.6
A_30_P01028905			0.52	1.3	0.00	1.7	0.00	1.5
A_30_P01030419			0.91	1.1	0.01	1.5	0.00	1.5
A_30_P01027299			0.95	1.0	0.00	1.5	0.00	1.5
A_55_P2040873	AK144847		0.99	-1.0	0.48	1.3	0.04	1.5
A_30_P01021129			0.95	-1.0	0.26	1.3	0.02	1.5
A_30_P01023567			1.00	-1.0	0.24	1.3	0.02	1.5
A_30_P01031056			0.87	-1.1	0.06	1.4	0.01	1.5
A_51_P485472	AK029938		0.99	-1.0	0.47	1.2	0.01	1.5
A_30_P01028374			1.00	-1.0	0.17	1.3	0.01	1.5
A_30_P01029770			0.98	-1.0	0.03	1.4	0.00	1.5
A_30_P01026904			0.86	-1.1	0.06	1.3	0.00	1.5
A_30_P01021437			1.00	1.0	0.04	1.3	0.00	1.5
A_55_P1995133			0.88	1.1	0.16	1.3	0.00	1.5
A_30_P01024871			0.99	-1.0	0.05	1.4	0.00	1.5
A_55_P1988009			0.93	1.1	0.19	1.3	0.00	1.5
A_55_P2184449	AK134871		0.98	-1.0	0.06	1.3	0.00	1.5
A_55_P1964658			0.29	1.2	0.00	1.4	0.00	1.5
A_30_P01032525			0.98	-1.0	0.17	1.3	0.00	1.5
A_30_P01024315			0.93	1.0	0.00	1.4	0.00	1.5
A_52_P336768			0.38	1.2	0.01	1.3	0.00	1.5
A_66_P109220	AK077292		0.74	1.1	0.06	1.3	0.00	1.5
A_55_P2115260	AK148532		0.95	1.0	0.01	1.4	0.00	1.5
A_51_P184849	NM_001162415	Pfkfb2	0.97	-1.0	0.11	1.3	0.00	1.5
A_55_P2028474	NM_001098225	Adam22	0.87	1.1	0.22	1.3	0.00	1.5
A_52_P203691	NM_207231	Arl5c	0.34	1.5	0.14	1.5	0.03	1.5
A_55_P2108248	NM_026639	Art4	0.72	1.2	0.15	1.3	0.00	1.5
A_55_P1962906	NM_001146060	Als2cl	0.92	1.0	0.00	1.4	0.00	1.5
A_51_P260658	NM_172935	Amdhd2	0.14	1.2	0.00	1.3	0.00	1.5
A_66_P117058	NM_173765	Aasdh	0.85	1.1	0.03	1.3	0.00	1.5
A_55_P2020306	NM_173765	Aasdh	0.99	-1.0	0.02	1.3	0.00	1.5
A_55_P2049582	NM_146085	Apbb3	0.92	-1.1	0.00	1.4	0.00	1.5
A_51_P201982	NM_007426	Angpt2	0.71	1.2	0.00	1.6	0.00	1.5
A_55_P2042156	NM_007377	Aatk	0.52	1.2	0.00	1.4	0.00	1.5
A_65_P09090	NM_011790	Arih2	0.54	1.1	0.00	1.4	0.00	1.5
A_55_P1957922	NM_027560	Arrdc2	0.94	1.0	0.04	1.3	0.00	1.5
A_55_P2088440	NM_027560	Arrdc2	0.95	1.0	0.05	1.4	0.00	1.5
A_51_P254425	NM_009644	Ahrr	0.06	1.5	0.02	1.4	0.00	1.5
A_55_P1955691	NM_001081264	Alg6	0.98	1.0	0.00	1.4	0.00	1.5

A_55_P1971074	NM_015804	Atp11a	0.91	1.1	0.10	1.3	0.00	1.5
A_55_P1985428	NM_001111111	Atg16l2	0.98	-1.0	0.00	1.4	0.00	1.5
A_55_P2142430	NM_001033350	Bank1	0.70	1.2	0.02	1.6	0.01	1.5
A_51_P379443	NM_001025392	Bclaf1	0.82	1.1	0.00	1.3	0.00	1.5
A_55_P2157093	NM_025778	Bcl2l14	0.87	1.1	0.59	1.2	0.03	1.5
A_55_P2079076	NM_001044308	Cacna1i	0.82	1.1	0.00	1.5	0.00	1.5
A_55_P2020341	NM_178597	Camk2g	0.73	1.1	0.00	1.3	0.00	1.5
A_55_P2142028	NM_030179	Clip4	0.71	-1.2	0.96	1.0	0.01	1.5
A_51_P277006	NM_175140	Chst8	0.94	1.1	0.71	1.1	0.03	1.5
A_55_P1960216	NM_009842	Cd151	0.95	1.0	0.83	1.1	0.00	1.5
A_55_P1978216	NM_134158	AF251705	0.11	1.6	0.62	1.2	0.04	1.5
A_55_P2029846	NM_001113283	BC031353	0.94	1.0	0.00	1.5	0.00	1.5
A_55_P1962354	NM_183182	BC055111	0.95	-1.0	0.64	-1.1	0.00	1.5
A_52_P167535	NM_001110506	BC060267	0.99	-1.0	0.10	1.4	0.00	1.5
A_55_P1999666	NM_012018	Cep110	0.93	1.0	0.00	1.4	0.00	1.5
A_65_P15875	NM_133913	Chpf2	0.14	1.2	0.00	1.3	0.00	1.5
A_66_P102733	NM_025455	Ccdc28b	0.93	-1.1	0.17	1.3	0.00	1.5
A_66_P106421	NM_029286	Ccdc30	0.96	-1.0	0.11	1.4	0.01	1.5
A_51_P156135	NM_026222	Ccdc39	0.95	1.0	0.25	1.3	0.01	1.5
A_55_P2079928	NM_201362	Ccdc68	0.77	1.2	0.06	1.4	0.01	1.5
A_52_P456448	NM_001162979	Ccdc81	0.99	-1.0	0.72	1.1	0.01	1.5
A_55_P2014635	NM_025534	Ccdc82	0.93	1.1	0.13	1.3	0.00	1.5
A_55_P2038106	NM_009978	Cst8	0.72	1.2	0.34	1.3	0.01	1.5
A_51_P337662	NM_172779	Ddx26b	0.97	-1.0	0.08	1.4	0.00	1.5
A_55_P2029612	NM_145742	Dhx35	0.81	1.1	0.00	1.4	0.00	1.5
A_55_P1985793	NM_177030	Dock6	0.91	1.1	0.04	1.3	0.00	1.5
A_52_P494380	NM_199011	Dgkq	0.87	-1.1	0.00	1.4	0.00	1.5
A_52_P425651	XM_129357	D19Erttd652e	0.95	-1.1	0.62	1.2	0.01	1.5
A_52_P578790	NM_013739	Dok3	0.51	1.3	0.03	1.5	0.01	1.5
A_52_P399934	NM_010090	Dusp2	0.48	1.3	0.16	1.4	0.03	1.5
A_55_P1962149	NM_019536	Dnahc10	0.86	-1.1	0.56	1.2	0.02	1.5
A_55_P1952449	NM_026314	Dyx1c1	0.90	1.1	0.06	1.3	0.00	1.5
A_51_P204252	NM_172497	Efnb	1.00	-1.0	0.24	1.3	0.02	1.5
A_51_P286357	NM_139138	Emr4	0.10	1.6	0.14	1.4	0.02	1.5
A_55_P2022861	NM_001039176	Elovl1	0.62	1.3	0.33	1.3	0.01	1.5
A_51_P482043	NM_175266	Epm2aip1	0.82	1.1	0.01	1.4	0.00	1.5
A_52_P37757	NM_026146	Eps8l1	0.97	1.0	0.17	1.2	0.00	1.5
A_55_P1998396	NM_013719	Eif2ak4	0.97	1.0	0.01	1.3	0.00	1.5
A_55_P2010332	NM_007968	Ewsr1	0.79	1.1	0.01	1.3	0.00	1.5
A_55_P2074771	NM_001081188	Exosc7	0.69	1.1	0.00	1.5	0.00	1.5
A_55_P1997282	NM_026604	Fam135a	0.90	-1.1	0.20	1.2	0.00	1.5
A_51_P104125	NM_176836	Fam76b	0.81	1.1	0.02	1.3	0.00	1.5
A_51_P512783	NM_025476	Fam82b	0.60	1.2	0.03	1.4	0.00	1.5
A_51_P378298	NM_026976	Faim3	0.07	1.5	0.00	1.6	0.00	1.5
A_55_P2034670	NM_013911	Fbxl12	0.98	1.0	0.01	1.5	0.00	1.5
A_55_P2078695	NM_177076	Fbxl13	0.94	1.0	0.46	1.2	0.00	1.5
A_51_P149373	NM_028149	Fbxl20	0.42	1.2	0.00	1.3	0.00	1.5
A_55_P2117345	NM_013517	Fcer2a	0.15	1.5	0.01	1.6	0.01	1.5
A_52_P644690	NM_013520	Flt3l	0.83	1.1	0.00	1.4	0.00	1.5

A_51_P509808	NM_018828	Fnbp4	0.86	1.1	0.10	1.4	0.00	1.5
A_55_P2114776	NM_015764	Greb1	0.90	1.1	0.52	1.2	0.03	1.5
A_55_P2045896	NM_010275	Gdnf	0.72	1.2	0.19	1.4	0.01	1.5
A_55_P2011943	NM_027898	Gramd1a	0.91	1.1	0.03	1.3	0.00	1.5
A_55_P2178378	NR_002840	Gas5	0.92	-1.1	0.04	1.4	0.00	1.5
A_52_P263658	NM_008236	Hes2	0.74	1.2	0.04	1.5	0.02	1.5
A_51_P214306	NM_145462	Haus4	0.65	1.1	0.03	1.3	0.00	1.5
A_55_P1973178	NM_027999	Haus5	0.97	1.0	0.03	1.3	0.00	1.5
A_55_P2017082	NM_182650	Hnrnpa2b1	0.92	1.1	0.04	1.4	0.00	1.5
A_55_P1993789	NM_016957	Hmgn2	0.44	1.3	0.37	1.3	0.01	1.5
A_55_P2002103	NM_001142701	Hmha1	0.55	1.2	0.05	1.4	0.00	1.5
A_55_P2004761	NM_001033978	H2-Eb2	0.32	1.4	0.17	1.3	0.02	1.5
A_66_P130916	NM_010389	H2-Ob	0.40	1.3	0.00	1.7	0.01	1.5
A_55_P2036813	NM_030082	Hist3h2ba	0.76	1.2	0.21	1.3	0.00	1.5
A_55_P1971804	NM_199198	Hdac10	0.87	1.0	0.00	1.4	0.00	1.5
A_51_P292073	NM_026897	Haghl	0.85	1.1	0.05	1.3	0.00	1.5
A_55_P2178972	XM_001474677	LOC100045652	0.95	1.0	0.07	1.3	0.00	1.5
A_55_P2097178	NM_008325	Idua	0.77	1.2	0.11	1.4	0.01	1.5
A_51_P505696	NM_008916	Inpp5k	0.80	1.1	0.03	1.4	0.00	1.5
A_51_P355360	NM_010589	Jak3	0.87	1.1	0.41	1.3	0.03	1.5
A_52_P609334	NM_030075	Klhdc8b	0.99	1.0	0.19	1.3	0.00	1.5
A_55_P2067895	NM_133922	Krba1	0.96	-1.0	0.00	1.3	0.00	1.5
A_51_P354706	NM_010094	Lefty1	0.00	1.5	0.05	1.4	0.00	1.5
A_55_P2028365	NM_001170788	Lrrc36	0.88	-1.1	0.52	1.2	0.02	1.5
A_55_P2102175	NM_025808	Lztr1	0.78	1.1	0.00	1.3	0.00	1.5
A_55_P2023783	NM_172736	Leng8	0.99	-1.0	0.12	1.3	0.00	1.5
A_55_P2005946	NM_026915	Lyzl4	0.97	-1.0	0.38	1.2	0.00	1.5
A_55_P2068560	NM_026915	Lyzl4	0.99	-1.0	0.09	1.4	0.00	1.5
A_51_P481644	NM_145442	Mbip	0.90	1.1	0.26	1.2	0.00	1.5
A_51_P455997	NR_027652	Meg3	0.91	1.1	0.51	1.3	0.03	1.5
A_51_P497692	NM_023788	Mageh1	0.79	1.1	0.31	1.2	0.01	1.5
A_55_P2130388	NM_138315	Mical1	0.32	1.2	0.00	1.4	0.00	1.5
A_52_P364130	NM_016896	Map3k14	0.76	1.1	0.01	1.4	0.00	1.5
A_55_P2077068	NM_172833	Malt1	0.65	1.2	0.00	1.4	0.00	1.5
A_55_P2111907	NM_027988	Noxo1	0.95	1.1	0.53	1.2	0.01	1.5
A_55_P1953683	NM_010945	Nsmaf	0.82	1.1	0.00	1.4	0.00	1.5
A_51_P519251	NM_019738	Nupr1	1.00	-1.0	0.06	1.3	0.00	1.5
A_52_P303891	NM_011584	Nr1d2	0.71	1.2	0.18	1.3	0.01	1.5
A_66_P127567	NM_016813	Nxf1	0.98	1.0	0.01	1.4	0.00	1.5
A_55_P2029191	NM_183408	Pde4a	0.92	1.1	0.13	1.3	0.00	1.5
A_52_P269158	NM_001003948	Pid1	0.21	1.3	0.00	1.5	0.00	1.5
A_55_P2052048	NM_028300	Pih1d2	0.96	-1.0	0.37	1.3	0.02	1.5
A_66_P104473	NM_015810	Polg2	0.73	1.1	0.00	1.4	0.00	1.5
A_55_P2122255	AJ251804	Polm	0.89	1.1	0.00	1.4	0.00	1.5
A_55_P2017055	NM_175429	Kctd12b	0.69	1.2	0.07	1.4	0.01	1.5
A_55_P2146413	NM_001085536	Gm13178	0.86	1.1	0.06	1.3	0.00	1.5
A_66_P116860	XM_001473103	Gm2370	1.00	1.0	0.42	1.2	0.00	1.5
A_55_P2115189	XM_001477969	Gm3796	0.98	-1.0	0.21	1.3	0.01	1.5
A_55_P2006677	XM_001473218	Gm7969	0.89	1.1	0.24	1.2	0.00	1.5

A_55_P2072631	NM_001083810	Prr5l	0.51	1.3	0.18	1.3	0.01	1.5
A_55_P2167269	NM_008793	Pcsk4	0.85	-1.1	0.04	1.3	0.00	1.5
A_52_P487362	NM_028980	Ppp4r4	0.96	-1.0	0.11	1.3	0.01	1.5
A_52_P114722	NM_001077705	Ptpn6	0.04	1.4	0.01	1.4	0.00	1.5
A_55_P1963533	NM_001003672	Pcdhac2	0.98	1.0	0.55	1.2	0.04	1.5
A_51_P310949	NM_008911	Ppox	0.98	-1.0	0.87	1.1	0.01	1.5
A_51_P257065	NM_018786	Prpf40b	0.88	1.1	0.02	1.3	0.00	1.5
A_55_P2000603	NM_009057	Rag1ap1	0.78	1.1	0.00	1.4	0.00	1.5
A_55_P2078365	NM_173402	Rgs12	0.68	1.2	0.00	1.5	0.00	1.5
A_55_P2027117	NM_019492	Rgs3	0.63	1.2	0.03	1.3	0.00	1.5
A_51_P278653	NM_023396	Rprm	0.74	1.2	0.40	1.3	0.04	1.5
A_55_P2175206	NM_175023	Rbbp6	0.83	1.1	0.18	1.2	0.00	1.5
A_66_P138289	NM_134006	Rdh5	0.96	1.0	0.03	1.3	0.00	1.5
A_51_P474454	NM_026001	Rnaseh2b	0.15	1.3	0.04	1.3	0.00	1.5
A_55_P2041090	NM_001037742	1110034B05Rik	0.66	1.1	0.00	1.3	0.00	1.5
A_52_P478745	NM_026110	1810007M14Rik	1.00	1.0	0.05	1.3	0.00	1.5
A_55_P2197338	AK008218	2010012P19Rik	0.92	1.1	0.27	1.2	0.00	1.5
A_52_P638513	NR_027965	2310061J03Rik	0.60	1.2	0.01	1.4	0.00	1.5
A_51_P144770	BC016099	2410002F23Rik	0.89	1.1	0.01	1.4	0.00	1.5
A_55_P2415930	AK013749	2900064F13Rik	0.76	1.1	0.46	1.2	0.00	1.5
A_66_P105874	NM_030192	4930562C15Rik	0.87	1.1	0.34	1.3	0.03	1.5
A_55_P2349148	AK017909	5830408B19Rik	0.90	1.1	0.93	1.0	0.02	1.5
A_51_P301636	NM_001109685	9030409G11Rik	0.84	1.1	0.88	1.1	0.02	1.5
A_51_P241213	XM_896385	A030005L19Rik	0.70	1.1	0.13	1.2	0.00	1.5
A_51_P158073	NM_175687	A230050P20Rik	0.86	1.1	0.00	1.4	0.00	1.5
A_51_P118779	NM_172725	C330006K01Rik	0.69	1.2	0.02	1.4	0.00	1.5
A_55_P2047621	NM_030021	D730039F16Rik	0.80	1.1	0.23	1.3	0.01	1.5
A_55_P2331546	AK081964	D830026I12Rik	0.80	1.1	0.22	1.3	0.01	1.5
A_52_P876147	XM_001474855	E030010N08Rik	0.89	1.1	0.06	1.3	0.00	1.5
A_55_P2000823	NM_133242	Rbm39	0.94	-1.0	0.02	1.3	0.00	1.5
A_55_P2031471	NM_001034060	Rufy4	0.61	1.3	0.71	1.2	0.03	1.5
A_52_P257686	NM_028456	Rwdd3	0.60	1.3	0.26	1.3	0.02	1.5
A_51_P155747	NM_028776	Scyl3	0.91	1.1	0.34	1.3	0.04	1.5
A_55_P2052425	NM_145482	Setd4	0.95	1.0	0.05	1.4	0.00	1.5
A_51_P388847	NM_145934	Stap2	0.81	1.1	0.04	1.3	0.00	1.5
A_52_P171791	NM_001031814	Smg1	0.86	1.1	0.00	1.4	0.00	1.5
A_55_P2030155	NM_175316	Slco2b1	0.93	1.0	0.00	1.4	0.00	1.5
A_55_P2079009	NM_175316	Slco2b1	0.90	1.1	0.18	1.3	0.00	1.5
A_55_P1953301	NM_146126	Sord	0.77	1.2	0.10	1.4	0.00	1.5
A_51_P374549	NM_027617	Spata1	0.90	1.1	0.16	1.3	0.00	1.5
A_55_P1958986	NM_178914	Spata7	0.89	1.1	0.00	1.4	0.00	1.5
A_55_P2113703	NM_019866	Spib	0.31	1.4	0.01	1.7	0.01	1.5
A_52_P543824	NM_026499	Sfrs6	0.96	1.0	0.15	1.2	0.00	1.5
A_55_P2059110	NM_001033186	Skap1	0.71	1.2	0.57	1.2	0.03	1.5
A_51_P236267	NM_009183	St8sia4	0.14	1.4	0.00	1.7	0.00	1.5
A_55_P2183597	NM_198664	Tbc1d2	0.75	1.2	0.44	1.2	0.00	1.5
A_51_P317695	NM_019510	Trpc3	0.85	1.1	0.00	1.4	0.00	1.5
A_55_P1966644	NM_013838	Trpc6	0.49	1.3	0.01	1.6	0.01	1.5
A_55_P2037962	NM_153417	Trpm6	0.92	1.1	0.17	1.3	0.00	1.5

A_51_P164939	NM_144916	Tmem150a	0.67	1.2	0.10	1.3	0.00	1.5
A_51_P489736	NM_001142647	Tmem194b	0.78	1.1	0.00	1.4	0.00	1.5
A_65_P10673	NM_172614	Tmem44	0.40	1.3	0.00	1.6	0.00	1.5
A_52_P112110	NM_145987	Tmem82	0.59	1.3	0.18	1.3	0.01	1.5
A_55_P1962359	NM_053168	Trim11	0.92	1.1	0.03	1.3	0.00	1.5
A_51_P104933	NM_145520	Trub2	0.68	1.1	0.00	1.4	0.00	1.5
A_52_P144297	NM_198617	Tspyl3	0.20	1.4	0.02	1.4	0.00	1.5
A_51_P201773	NM_198031	Tubgcp3	0.86	1.1	0.00	1.4	0.00	1.5
A_55_P2117614	NM_028075	Tnfrsf13c	0.49	1.3	0.00	1.9	0.01	1.5
A_55_P1963344	NM_026573	Upf3b	0.69	-1.2	0.07	1.3	0.00	1.5
A_52_P301495	NM_009497	Vamp2	0.94	1.0	0.04	1.4	0.00	1.5
A_51_P316801	NM_146039	Wdr60	0.78	1.2	0.01	1.6	0.03	1.5
A_55_P2004746	NM_183319	Xkrx	0.91	1.1	0.15	1.4	0.03	1.5
A_55_P1970017	NM_178694	Zer1	0.76	1.1	0.03	1.3	0.00	1.5
A_52_P139819	NM_178404	Zc3h6	0.28	1.2	0.00	1.4	0.00	1.5
A_51_P312997	NM_012017	Zfp346	0.73	1.1	0.00	1.4	0.00	1.5
A_51_P156263	NM_027201	Zfp511	0.71	1.1	0.00	1.4	0.00	1.5
A_52_P217604	NM_182996	Zfp692	0.87	-1.1	0.44	1.2	0.02	1.5
A_55_P2139889	NR_027963	Zfp783	0.70	1.2	0.06	1.3	0.00	1.5
A_51_P396917	NM_026752	Zfyve21	0.76	1.2	0.36	1.2	0.00	1.5
A_51_P392967	NM_053253	Zmynd10	0.95	-1.1	0.37	1.3	0.00	1.5
A_30_P01031072			0.91	-1.1	0.01	1.5	0.00	1.4
A_30_P01018252			0.46	1.3	0.01	1.5	0.02	1.4
A_30_P01020325			0.69	-1.1	0.00	1.5	0.00	1.4
A_51_P298802	NM_001002896	Bfsp2	0.66	1.2	0.00	1.6	0.01	1.4
A_66_P114768	NM_001109661	Bach2	0.75	1.1	0.00	1.5	0.00	1.4
A_51_P181286	NM_001033122	Cd69	0.41	1.3	0.01	1.5	0.00	1.4
A_51_P124345	NM_153166	Cpne5	0.61	1.2	0.00	1.6	0.00	1.4
A_55_P1999301	NM_021282	Cyp2e1	0.97	1.1	0.03	2.1	0.34	1.4
A_55_P1966690	NM_021282	Cyp2e1	1.00	-1.0	0.04	1.9	0.34	1.4
A_51_P185247	NM_145741	Gdf10	0.97	1.0	0.01	1.7	0.04	1.4
A_52_P1391	NM_010388	H2-DMb2	0.35	1.3	0.02	1.5	0.03	1.4
A_51_P196695	NM_008372	Ii7r	0.00	1.6	0.49	1.2	0.02	1.4
A_51_P121031	NM_175188	40969.0	0.00	1.5	0.11	1.3	0.03	1.4
A_51_P232281	NM_011109	Pla2g2d	0.81	1.1	0.00	1.5	0.00	1.4
A_55_P2089233	NM_011136	Pou2af1	0.61	1.3	0.03	1.5	0.05	1.4
A_55_P1976278	NM_008855	Prkcb	0.09	1.6	0.04	1.5	0.08	1.4
A_55_P2095899	XM_001476219	2310057B04Rik	0.59	1.2	0.00	1.5	0.00	1.4
A_66_P114333	NM_205823	Tlr12	0.08	1.7	0.01	1.8	0.08	1.4
A_55_P2125491	NM_011659	Tnfrsf4	0.85	1.1	0.03	1.5	0.02	1.4
A_51_P399853	NM_133218	Zfp704	0.75	1.1	0.00	1.5	0.00	1.4
A_30_P01020777			0.53	1.2	0.00	1.6	0.04	1.3
A_30_P01020208			0.28	1.4	0.03	1.5	0.04	1.3
A_55_P1981964	AK004668		0.33	1.3	0.01	1.5	0.04	1.3
A_55_P2108943	NM_009835	Ccr6	0.35	1.3	0.00	1.7	0.04	1.3
A_51_P146753	NM_007781	Csf2rb2	0.00	1.7	0.97	-1.0	0.11	1.3
A_51_P258372	NM_030691	Igsf6	0.00	2.1	0.72	1.2	0.24	1.3
A_51_P231320	NM_008611	Mmp8	0.00	2.5	0.70	1.2	0.48	1.3
A_52_P483336	NM_007641	Ms4a1	0.58	1.3	0.00	1.8	0.26	1.3

A_55_P2185900	NM_032002	Nrg4	0.94	1.1	0.03	1.6	0.22	1.3
A_55_P1957249	NM_001146268	Pdgfrb	0.84	1.1	0.00	1.5	0.04	1.3
A_55_P2142232	XM_893705	Gm6930	0.00	1.5	0.99	1.0	0.05	1.3
A_65_P20249	NM_008855	Prkcb	0.00	1.6	0.09	1.4	0.17	1.3
A_51_P114456	NM_025617	2210012G02Rik	0.64	1.3	0.04	1.6	0.33	1.3
A_51_P408649	NM_145463	Shisa2	0.89	1.1	0.04	1.6	0.23	1.3
A_51_P305052	NM_172900	Siglecg	0.52	1.2	0.00	1.5	0.02	1.3
A_55_P2091193	XM_001480396	LOC100048513	0.00	1.5	0.11	1.3	0.04	1.3
A_55_P1963960	XM_918548	LOC641201	0.00	2.1	0.69	1.2	0.41	1.3
A_51_P495581	NM_030682	Tlr1	0.00	1.5	0.00	1.4	0.01	1.3
A_55_P2011387	NM_145133	Tifa	0.00	1.6	0.59	1.2	0.15	1.3
A_66_P120987	NM_007655	Cd79a	0.77	1.2	0.03	1.5	0.41	1.2
A_55_P2054445	NM_013489	Cd84	0.04	1.8	0.80	1.1	0.47	1.2
A_55_P2037812	NM_023245	Palmd	0.80	1.1	0.02	1.5	0.17	1.2
A_51_P366672	NM_153170	Slc36a2	0.71	1.2	0.00	1.7	0.23	1.2
A_52_P392644	NM_173769	Zfp641	0.87	1.1	0.02	1.5	0.37	1.2
A_55_P2066778	NM_206536	AB124611	0.00	1.5	0.49	1.2	0.80	1.1
A_55_P2137049	NM_001004174	AA467197	0.04	2.8	0.98	1.0	0.98	1.0
A_66_P114784	NM_013737	Pla2g7	0.04	1.9	0.84	-1.1	0.92	1.0
A_55_P2040485	XM_889011	Ms4a4a	0.00	2.2	0.80	1.1	0.88	-1.1
A_51_P284823	NM_009086	Polr1b	0.33	-1.5	0.01	-1.7	0.76	-1.1
A_55_P2143765	NM_145079	Ugt1a6a	0.74	-1.1	0.00	-1.5	0.26	-1.2
A_51_P423709	NM_029007	Fam84a	1.00	1.0	0.04	-1.5	0.11	-1.3
A_52_P525317	NM_008121	Gja5	0.61	-1.3	0.03	-1.5	0.17	-1.3
A_51_P464387	NM_030704	Hspb8	0.29	-1.3	0.00	-1.5	0.00	-1.3
A_52_P318673	NM_009117	Saa1	0.04	6.5	0.92	-1.2	0.84	-1.3
A_55_P1953169	NM_011315	Saa3	0.00	12.2	0.88	-1.4	0.86	-1.3
A_55_P2165790	NM_178706	Siglech	1.00	1.0	0.00	-1.5	0.01	-1.3
A_30_P01017790			0.38	-1.3	0.02	-1.5	0.01	-1.4
A_66_P100365			0.04	-1.3	0.00	-1.5	0.00	-1.4
A_55_P2019719	NM_145227	Oas2	0.77	-1.3	0.03	-2.0	0.34	-1.4
A_66_P124858	NM_001024474	Diras2	0.16	-1.5	0.03	-1.5	0.04	-1.4
A_55_P2085546	NM_021422	Dnaja4	0.00	-1.5	0.01	-1.5	0.00	-1.4
A_51_P507290	NM_009769	Klf5	0.06	-1.4	0.00	-1.5	0.01	-1.4
A_55_P2022569	NM_008778	Pak3	0.88	-1.1	0.00	-1.5	0.00	-1.4
A_30_P01025874			0.77	-1.2	0.01	-1.6	0.01	-1.5
A_30_P01024706			0.97	1.0	0.26	-1.4	0.03	-1.5
A_30_P01029545			0.89	1.1	0.33	-1.3	0.03	-1.5
A_30_P01032527			0.93	-1.1	0.06	-1.5	0.03	-1.5
A_55_P2069530			0.95	-1.0	0.53	-1.2	0.02	-1.5
A_30_P01024724			0.66	-1.2	0.13	-1.4	0.02	-1.5
A_30_P01031754			0.83	-1.1	0.38	-1.3	0.02	-1.5
A_30_P01019049			0.73	-1.2	0.14	-1.4	0.01	-1.5
A_30_P01020907			0.66	-1.2	0.33	-1.2	0.01	-1.5
A_30_P01020742			0.91	-1.1	0.20	-1.3	0.01	-1.5
A_30_P01028808			0.88	-1.1	0.38	-1.2	0.01	-1.5
A_30_P01021970			0.85	-1.1	0.20	-1.3	0.00	-1.5
A_30_P01032942			0.71	-1.2	0.34	-1.2	0.00	-1.5
A_30_P01025051			0.85	-1.1	0.08	-1.3	0.00	-1.5

A_30_P01021932			0.54	-1.2	0.03	-1.4	0.00	-1.5
A_30_P01029711			0.16	-1.2	0.25	-1.1	0.00	-1.5
A_30_P01024297			0.77	-1.1	0.29	-1.2	0.00	-1.5
A_55_P1955733	XM_001477303		0.83	-1.1	0.27	-1.2	0.00	-1.5
A_30_P01031683			0.85	-1.1	0.21	-1.2	0.00	-1.5
A_55_P1981002			0.63	-1.1	0.01	-1.3	0.00	-1.5
A_55_P2021923	AB241120		0.76	-1.1	0.06	-1.3	0.00	-1.5
A_30_P01022343			0.83	-1.1	0.17	-1.3	0.00	-1.5
A_30_P01026230			0.78	-1.1	0.47	-1.2	0.00	-1.5
A_30_P01023400			0.40	-1.3	0.00	-1.4	0.00	-1.5
A_30_P01029815			0.75	-1.2	0.15	-1.3	0.00	-1.5
A_30_P01028277			0.92	-1.1	0.35	-1.2	0.00	-1.5
A_30_P01028705			0.76	-1.1	0.50	-1.2	0.00	-1.5
A_30_P01028258			0.84	-1.1	0.10	-1.4	0.00	-1.5
A_30_P01027919			0.93	-1.1	0.08	-1.4	0.00	-1.5
A_30_P01033110			0.74	-1.2	0.19	-1.3	0.00	-1.5
A_30_P01024606			0.54	-1.2	0.76	-1.1	0.00	-1.5
A_55_P1962707			0.84	-1.1	0.20	-1.3	0.00	-1.5
A_30_P01032304			0.64	-1.2	0.00	-1.4	0.00	-1.5
A_30_P01022751			0.77	-1.1	0.19	-1.2	0.00	-1.5
A_30_P01032647			0.53	-1.2	0.02	-1.4	0.00	-1.5
A_30_P01025204			0.66	-1.1	0.05	-1.3	0.00	-1.5
A_51_P265571	NM_009627	Adm	0.82	-1.2	0.50	-1.2	0.03	-1.5
A_51_P234544	NM_018745	Azin1	0.64	-1.3	0.19	-1.4	0.03	-1.5
A_55_P2043367	NM_173786	Apol9a	0.86	-1.1	0.03	-1.6	0.02	-1.5
A_55_P2000369	NM_009700	Aqp4	0.38	-1.4	0.30	-1.3	0.03	-1.5
A_55_P2003824	NM_009714	Asgr1	0.15	-1.7	0.18	-1.5	0.04	-1.5
A_55_P2003823	NM_009714	Asgr1	0.25	-1.4	0.10	-1.4	0.01	-1.5
A_52_P168097	NM_009722	Atp2a2	0.59	-1.2	0.38	-1.2	0.01	-1.5
A_51_P371174	NM_013863	Bag3	0.00	-1.3	0.00	-1.5	0.00	-1.5
A_52_P278354	NM_007557	Bmp7	0.80	-1.1	0.49	-1.2	0.01	-1.5
A_55_P1990879	NM_016812	Banp	0.15	-1.3	0.00	-1.4	0.00	-1.5
A_51_P175424	NM_011797	Car14	0.43	-1.4	0.17	-1.4	0.02	-1.5
A_51_P517120	NM_001013379	D10627	0.76	-1.1	0.23	-1.2	0.00	-1.5
A_52_P329367	NM_001025566	Chka	0.55	-1.2	0.05	-1.3	0.00	-1.5
A_55_P2175469	NM_001081345	Chd2	0.83	-1.2	0.78	-1.1	0.04	-1.5
A_51_P446477	NM_171826	Cldnd1	0.61	-1.2	0.38	-1.2	0.00	-1.5
A_52_P590474	NM_019937	Ccnl1	0.63	-1.2	0.04	-1.3	0.00	-1.5
A_51_P208603	NM_010050	Dio2	0.86	-1.1	0.58	-1.2	0.02	-1.5
A_55_P2112967	NM_007858	Diap1	0.38	-1.3	0.04	-1.4	0.00	-1.5
A_55_P2014978	NM_007889	Dm3	0.82	-1.1	0.22	-1.2	0.00	-1.5
A_52_P52263	NM_001044719	D17Wsu92e	0.89	-1.1	0.13	-1.4	0.01	-1.5
A_55_P2334484	BE650233	D9Erttd115e	0.17	-1.3	0.00	-1.5	0.00	-1.5
A_51_P439857	NM_030046	Dnajc21	0.14	-1.3	0.05	-1.2	0.00	-1.5
A_52_P445253	NM_133833	Dst	0.80	-1.1	0.19	-1.3	0.01	-1.5
A_52_P654965	NM_144545	Eif3j	0.73	-1.2	0.45	-1.2	0.00	-1.5
A_52_P265544	NM_177077	Exoc6b	0.40	-1.2	0.05	-1.2	0.00	-1.5
A_55_P2231747	BB325257	AW742560	0.94	-1.1	0.30	-1.3	0.03	-1.5
A_51_P371485	NM_198017	Fam175b	0.56	-1.2	0.07	-1.3	0.00	-1.5

A_55_P2076984	NM_134082	Farp1	0.74	-1.2	0.34	-1.2	0.00	-1.5
A_55_P2039196	NM_020014	Gfra4	0.72	-1.2	0.10	-1.3	0.00	-1.5
A_55_P2059532	NM_027389	Gon4l	0.72	-1.2	0.34	-1.2	0.00	-1.5
A_55_P1955457	NM_010345	Grb10	0.94	-1.1	0.28	-1.3	0.01	-1.5
A_65_P15809	NR_003967	Gm4759	0.98	-1.0	0.30	-1.2	0.00	-1.5
A_55_P1955587	NM_010477	Hspd1	0.44	-1.3	0.55	-1.2	0.01	-1.5
A_52_P218537	NM_016884	Hnmpc	0.89	-1.1	0.07	-1.3	0.00	-1.5
A_55_P2021089	XM_001472541	Ighg	0.40	-1.4	0.04	-1.6	0.03	-1.5
A_52_P212686	NM_146191	Lrrk1	0.84	-1.1	0.09	-1.3	0.00	-1.5
A_55_P2010097	NM_001045550	Mup2	0.61	-1.3	0.13	-1.5	0.03	-1.5
A_51_P150521	NM_146035	Mgat2	0.87	-1.1	0.01	-1.4	0.00	-1.5
A_55_P2039250	NM_026037	Mboat2	0.80	-1.1	0.46	-1.2	0.01	-1.5
A_51_P418168	NM_029103	Manf	0.97	-1.0	0.19	-1.3	0.01	-1.5
A_55_P2095047	NM_145569	Mat2a	0.38	-1.3	0.00	-1.5	0.00	-1.5
A_55_P2078710	AK160137	Morc4	0.42	-1.3	0.07	-1.3	0.00	-1.5
A_52_P58257	NM_080456	Mrps6	0.61	-1.2	0.13	-1.3	0.00	-1.5
A_55_P2069926	NM_009268	Muc11	0.04	-1.8	0.03	-1.6	0.04	-1.5
A_55_P2077866	NM_010918	Nktr	0.50	-1.3	0.51	-1.2	0.01	-1.5
A_55_P2104917	NM_016902	Nphp1	0.44	-1.4	0.71	-1.2	0.03	-1.5
A_55_P2068772	NM_026554	Ncbp2	0.55	-1.2	0.03	-1.3	0.00	-1.5
A_51_P151433	NM_026554	Ncbp2	0.93	-1.1	0.28	-1.3	0.00	-1.5
A_52_P565940	NM_008739	Nsd1	0.73	-1.1	0.22	-1.2	0.00	-1.5
A_52_P572197	NM_145962	Pank3	0.84	-1.1	0.11	-1.3	0.00	-1.5
A_55_P2056236	NM_019809	Pdlim5	0.54	-1.3	0.22	-1.4	0.03	-1.5
A_65_P20174	NM_172303	Phf17	0.55	-1.2	0.18	-1.2	0.00	-1.5
A_55_P2126627	NM_001081409	Phf20l1	0.60	-1.2	0.26	-1.3	0.01	-1.5
A_55_P2133624	XM_001475193	Gm2891	0.87	-1.1	0.25	-1.2	0.00	-1.5
A_55_P1960738	XM_001472780	Gm4470	0.69	-1.2	0.50	-1.2	0.01	-1.5
A_55_P2055763	NM_001034902	Gm5878	0.88	-1.1	0.16	-1.3	0.00	-1.5
A_55_P1963645	XM_897102	Gm6323	0.81	-1.2	0.42	-1.2	0.01	-1.5
A_55_P1967002	XM_001473953	Gm9441	0.65	-1.2	0.29	-1.3	0.00	-1.5
A_55_P2031989	NM_028724	Rin2	0.84	-1.1	0.76	-1.1	0.00	-1.5
A_52_P565575	NM_175535	Arhgap20	0.72	-1.2	0.33	-1.3	0.01	-1.5
A_55_P2363902	AK011494	2610020P09Rik	0.91	-1.1	0.05	-1.4	0.00	-1.5
A_55_P2022724	NR_030716	5430417L22Rik	0.65	-1.2	0.03	-1.3	0.00	-1.5
A_55_P2278965	AK017326	5430420F09Rik	0.97	-1.0	0.15	-1.2	0.00	-1.5
A_55_P2193064	AK142114	6720473M08Rik	0.88	-1.1	0.36	-1.3	0.02	-1.5
A_52_P393589	NM_133733	9030425E11Rik	0.96	1.0	0.44	-1.2	0.02	-1.5
A_55_P2067608	NM_133733	9030425E11Rik	1.00	-1.0	0.37	-1.2	0.00	-1.5
A_55_P2189893	AK042233	A630073K07Rik	0.91	-1.1	0.10	-1.3	0.00	-1.5
A_55_P2037618	NM_001163502	C130039O16Rik	0.85	-1.1	0.61	-1.1	0.00	-1.5
A_55_P2329313	AK049648	C530014P21Rik	0.98	-1.0	0.32	-1.3	0.03	-1.5
A_55_P2446231	AK042002	D730040F13Rik	0.91	-1.1	0.55	-1.2	0.03	-1.5
A_55_P2233373	AK032962	D930023I05Rik	0.77	-1.2	0.61	-1.2	0.01	-1.5
A_51_P503192	NM_175402	Rbm15b	0.69	-1.2	0.03	-1.4	0.00	-1.5
A_52_P280360	NM_016809	Rbm3	0.76	-1.2	0.08	-1.4	0.00	-1.5
A_55_P1993858	NR_001460	Rmrp	0.92	-1.1	0.23	-1.3	0.01	-1.5
A_51_P161354	NM_144907	Sesn2	0.85	-1.1	0.14	-1.3	0.00	-1.5
A_55_P2021011	NM_030207	Sfi1	0.34	-1.3	0.03	-1.3	0.00	-1.5

A_52_P273169	NM_001082414	Sh3d19	0.65	-1.2	0.28	-1.3	0.01	-1.5
A_51_P466886	NM_019708	Scoc	0.53	-1.2	0.24	-1.2	0.00	-1.5
A_55_P2183498	NM_025668	Spcs2	0.91	-1.1	0.20	-1.2	0.00	-1.5
A_55_P2151082	XM_919699	LOC632154	0.82	-1.2	0.59	-1.2	0.01	-1.5
A_66_P131645	XM_001477593	LOC100047183	0.92	-1.1	0.05	-1.5	0.01	-1.5
A_55_P2048660	XM_908118	LOC633654	0.85	-1.1	0.20	-1.3	0.00	-1.5
A_55_P2124619	NM_025481	Smurf2	0.32	-1.2	0.08	-1.3	0.00	-1.5
A_55_P2351193	AF357397	Snora47	0.77	-1.1	0.01	-1.4	0.00	-1.5
A_55_P2079388	NR_002905	Snora74a	0.99	-1.0	0.05	-1.3	0.00	-1.5
A_55_P2058117	NM_177732	Slc35d1	0.55	-1.3	0.48	-1.2	0.03	-1.5
A_52_P532227	NM_007901	S1pr1	0.85	-1.2	0.16	-1.4	0.04	-1.5
A_66_P134690	NM_146043	Spin1	0.23	-1.2	0.00	-1.3	0.00	-1.5
A_52_P291971	NM_025303	Stau2	0.64	-1.1	0.04	-1.3	0.00	-1.5
A_51_P142744	NM_172294	Sulf1	0.87	1.1	0.26	-1.4	0.03	-1.5
A_52_P393306	NM_009222	Snap23	0.83	-1.1	0.03	-1.4	0.00	-1.5
A_55_P2462940	NM_001081008	Taf1	0.70	-1.2	0.70	-1.1	0.00	-1.5
A_55_P2081388	NM_008575	Mdm4	0.75	-1.2	0.93	-1.0	0.01	-1.5
A_51_P490023	NM_009450	Tubb2a	0.85	-1.1	0.01	-1.3	0.00	-1.5
A_52_P434974	NM_152234	Ubqln1	0.62	-1.1	0.00	-1.4	0.00	-1.5
A_51_P180452	NM_133656	Crk	0.94	-1.1	0.26	-1.3	0.01	-1.5
A_66_P100937	XM_001487796	Zfp33b	0.95	-1.1	0.72	-1.1	0.01	-1.5
A_55_P2173373	NM_001024846	Zfp62	0.71	-1.2	0.65	-1.1	0.00	-1.5
A_55_P2039038	NM_001081750	Zfp664	0.45	-1.2	0.25	-1.2	0.00	-1.5
A_30_P01031627			0.00	-1.5	0.00	-1.5	0.00	-1.6
A_30_P01019583			0.64	-1.3	0.41	-1.3	0.01	-1.6
A_55_P2109564	AK039146		0.90	1.1	0.77	-1.1	0.00	-1.6
A_30_P01030704			0.54	-1.3	0.13	-1.3	0.00	-1.6
A_30_P01025354			0.68	-1.2	0.20	-1.3	0.00	-1.6
A_30_P01018220			0.86	-1.1	0.13	-1.4	0.00	-1.6
A_55_P1991239	AK051413		0.69	-1.1	0.01	-1.3	0.00	-1.6
A_55_P1998721	AK137722		0.60	-1.2	0.11	-1.3	0.00	-1.6
A_52_P245766			0.51	-1.3	0.26	-1.3	0.00	-1.6
A_30_P01029345			0.82	-1.1	0.04	-1.4	0.00	-1.6
A_55_P2072315	AK133410		0.78	-1.1	0.14	-1.3	0.00	-1.6
A_30_P01017707			0.84	-1.1	0.05	-1.4	0.00	-1.6
A_30_P01027949			0.55	-1.2	0.04	-1.3	0.00	-1.6
A_30_P01026028			0.52	-1.3	0.27	-1.3	0.00	-1.6
A_55_P2090205	U04541		0.23	-1.3	0.01	-1.4	0.00	-1.6
A_55_P2114994			0.94	1.0	0.11	-1.2	0.00	-1.6
A_30_P01032670			0.45	-1.3	0.06	-1.4	0.00	-1.6
A_30_P01025230			0.76	-1.2	0.06	-1.4	0.00	-1.6
A_30_P01026318			1.00	-1.0	0.08	-1.4	0.00	-1.6
A_51_P155763	NM_001146089	Ascc3	0.70	-1.1	0.00	-1.5	0.00	-1.6
A_55_P1977875	NM_176849	Arglu1	0.14	-1.3	0.10	-1.3	0.00	-1.6
A_52_P97670	NM_001099628	Atad2b	0.72	-1.2	0.25	-1.2	0.00	-1.6
A_66_P101519	NM_021041	Abcc9	0.12	-1.6	0.56	-1.2	0.01	-1.6
A_55_P1985259	NM_001017985	C2cd3	0.69	-1.2	0.17	-1.3	0.01	-1.6
A_52_P334670	NM_007715	Clock	0.48	-1.3	0.17	-1.3	0.00	-1.6
A_55_P2143837	NM_007735	Col4a4	0.14	-1.4	0.08	-1.3	0.00	-1.6

A_51_P302167	NM_172496	Cobl	0.07	-1.5	0.01	-1.5	0.00	-1.6
A_51_P363947	NM_007669	Cdkn1a	0.66	-1.3	0.01	-1.6	0.00	-1.6
A_55_P1959973	NM_175539	Dcaf12l2	0.69	-1.2	0.17	-1.3	0.00	-1.6
A_55_P2017845	NM_153078	Ehbp1	0.80	-1.1	0.20	-1.3	0.00	-1.6
A_66_P105564	NM_175452	Gjc2	0.49	-1.2	0.00	-1.4	0.00	-1.6
A_52_P554703	NM_183183	Gprn3	0.66	-1.3	0.01	-1.6	0.01	-1.6
A_52_P281702	NM_010518	Igfbp5	0.81	-1.2	0.11	-1.4	0.01	-1.6
A_52_P351816	NM_010578	Itgb1	0.87	-1.1	0.21	-1.3	0.01	-1.6
A_55_P2408415	NR_001461	Kcnq1ot1	0.32	-1.3	0.07	-1.4	0.00	-1.6
A_55_P2151209	NM_130873	Krtap16-4	0.69	-1.1	0.12	-1.2	0.00	-1.6
A_52_P52128	NM_001039522	Leo1	1.00	-1.0	0.44	-1.3	0.01	-1.6
A_55_P2062642	NM_025952	Magt1	0.73	-1.1	0.00	-1.4	0.00	-1.6
A_55_P1988970	NM_021527	Mkks	0.32	-1.3	0.01	-1.4	0.00	-1.6
A_55_P2111172	NM_021442	Mecom	0.81	-1.1	0.07	-1.4	0.00	-1.6
A_55_P2336173	AK077315	Mirg	1.00	1.0	0.22	-1.5	0.03	-1.6
A_51_P108978	NM_016969	Myadm	0.86	-1.1	0.17	-1.4	0.01	-1.6
A_55_P1987409	NM_173444	Nbeal1	0.58	-1.3	0.07	-1.4	0.01	-1.6
A_52_P634822	NM_008672	Nap1l4	0.73	-1.2	0.26	-1.2	0.00	-1.6
A_55_P1993054	NM_133948	Psip1	0.48	-1.2	0.08	-1.3	0.00	-1.6
A_55_P2052623	NM_145583	Pgap2	0.91	-1.1	0.69	-1.2	0.04	-1.6
A_55_P1999818	XM_001472026	Gm2006	0.77	-1.1	0.13	-1.3	0.00	-1.6
A_52_P239023	NM_001142957	Gm4455	0.66	-1.2	0.14	-1.2	0.00	-1.6
A_55_P2067741	NM_020261	Psg23	0.85	-1.1	0.88	-1.1	0.00	-1.6
A_55_P2413598	NM_001080813	Rab11fip1	0.53	-1.2	0.19	-1.3	0.00	-1.6
A_51_P477364	NM_007483	Rhob	0.71	-1.2	0.21	-1.3	0.00	-1.6
A_52_P527874	NM_199447	Rrp12	0.58	-1.2	0.00	-1.3	0.00	-1.6
A_55_P2281624	AK142273	2610034E01Rik	0.61	-1.2	0.15	-1.3	0.00	-1.6
A_52_P40954	NR_028300	5330426P16Rik	0.91	-1.1	0.04	-1.4	0.00	-1.6
A_51_P474169	NM_144883	5430407P10Rik	0.00	-1.4	0.00	-1.4	0.00	-1.6
A_55_P1974522	NM_175688	A530099J19Rik	0.06	-1.4	0.00	-1.4	0.00	-1.6
A_55_P2292046	AK084291	D230018H15Rik	0.26	-1.4	0.00	-1.7	0.00	-1.6
A_52_P181468	NM_030241	Setd8	0.31	-1.3	0.12	-1.3	0.00	-1.6
A_55_P2104798	XM_001480269	LOC100044040	0.52	-1.3	0.18	-1.3	0.00	-1.6
A_55_P2018307	XM_001005025	LOC677576	0.76	-1.1	0.20	-1.2	0.00	-1.6
A_55_P2072980	NM_001076554	Spna2	0.75	-1.2	0.43	-1.3	0.01	-1.6
A_51_P485458	NM_001005506	Txlna	0.38	-1.3	0.12	-1.3	0.00	-1.6
A_55_P1989865	NM_146153	Thrap3	0.83	-1.2	0.81	-1.1	0.01	-1.6
A_55_P2433438	NM_011544	Tcf12	0.86	-1.1	0.11	-1.3	0.00	-1.6
A_52_P45738	NM_029979	Trim35	0.80	-1.2	0.64	-1.2	0.04	-1.6
A_55_P2108754	NM_138589	Ubfd1	0.80	-1.1	0.13	-1.3	0.00	-1.6
A_55_P2006035	NM_030166	Galntl2	0.55	-1.4	0.67	-1.2	0.01	-1.6
A_52_P543040	NM_028276	Utp14a	0.63	-1.2	0.18	-1.2	0.00	-1.6
A_55_P2212027	NM_011682	Utn	0.65	-1.2	0.22	-1.3	0.00	-1.6
A_55_P1964559	NR_002888	Vmn2r-ps14	0.78	-1.1	0.39	-1.2	0.00	-1.6
A_55_P1966833	NM_001037713	Xaf1	0.69	-1.3	0.11	-1.5	0.01	-1.6
A_30_P01028666			0.87	-1.1	0.02	-1.5	0.00	-1.7
A_30_P01025818			0.44	-1.4	0.02	-1.6	0.00	-1.7
A_30_P01029702			0.60	-1.2	0.00	-1.6	0.00	-1.7
A_30_P01030969			0.97	1.0	0.41	-1.3	0.01	-1.7

A_30_P01028353			0.34	-1.2	0.01	-1.4	0.00	-1.7
A_30_P01025536			0.65	-1.2	0.03	-1.3	0.00	-1.7
A_55_P2108903	AK038731		0.87	-1.1	0.09	-1.4	0.00	-1.7
A_66_P115161	AK039734		0.85	-1.1	0.04	-1.4	0.00	-1.7
A_30_P01029006			0.30	-1.5	0.06	-1.5	0.00	-1.7
A_30_P01021097			0.89	-1.1	0.20	-1.4	0.00	-1.7
A_55_P2105321	NM_023190	Acin1	0.72	-1.2	0.64	-1.2	0.00	-1.7
A_51_P300618	NM_001163566	Crb2	0.91	1.1	0.45	-1.4	0.02	-1.7
A_55_P2430472	NM_011805	Dido1	0.68	-1.2	0.62	-1.2	0.00	-1.7
A_55_P1992149	NM_001164671	Dnaja1	0.33	-1.3	0.00	-1.7	0.00	-1.7
A_51_P383270	NM_175473	Fras1	0.96	1.1	0.27	-1.4	0.00	-1.7
A_55_P2060284	NM_001033380	Itpril2	0.66	-1.2	0.12	-1.3	0.00	-1.7
A_52_P176737	NM_178142	Lcorl	0.76	-1.1	0.03	-1.3	0.00	-1.7
A_55_P2454099	NM_023799	Mgea5	0.85	-1.1	0.41	-1.2	0.00	-1.7
A_55_P2175752	NM_001081975	Mfap1b	0.88	-1.1	0.66	-1.2	0.00	-1.7
A_55_P2115127	NM_026483	Mphosph10	0.72	-1.1	0.18	-1.2	0.00	-1.7
A_55_P2169356	XM_001000891	Gm1966	0.93	-1.1	0.86	-1.1	0.04	-1.7
A_52_P332788	XM_001473420	Gm2397	0.90	1.1	0.91	-1.1	0.00	-1.7
A_55_P2126557	XM_619973	Gm5858	0.72	-1.2	0.13	-1.3	0.00	-1.7
A_52_P30451	NM_016854	Ppp1r3c	0.45	-1.4	0.39	-1.3	0.00	-1.7
A_52_P667913	NM_033592	Pcdhga9	0.79	-1.2	0.72	-1.2	0.04	-1.7
A_51_P227392	NM_133955	Rhou	0.94	1.1	0.35	-1.4	0.03	-1.7
A_51_P112762	NM_017391	Slc5a3	0.07	-1.4	0.00	-1.5	0.00	-1.7
A_52_P283055	NM_017391	Slc5a3	0.46	-1.3	0.01	-1.4	0.00	-1.7
A_55_P2170514	NM_018754	Sfn	0.36	-1.7	0.11	-1.7	0.04	-1.7
A_51_P210143	NM_001005510	Syne2	0.88	-1.1	0.31	-1.3	0.00	-1.7
A_55_P2413458	NM_023755	Tcfcp2l1	0.90	-1.1	0.60	-1.2	0.01	-1.7
A_30_P01031080			0.61	-1.2	0.02	-1.5	0.00	-1.8
A_30_P01022661			0.76	-1.2	0.01	-1.5	0.00	-1.8
A_30_P01019037			0.44	-1.4	0.04	-1.6	0.00	-1.8
A_30_P01031450			0.94	-1.0	0.00	-1.4	0.00	-1.8
A_52_P625171	NM_133723	Asph	0.32	-1.4	0.17	-1.4	0.00	-1.8
A_51_P153486	NM_018808	Dnajb1	0.00	-1.5	0.00	-1.9	0.00	-1.8
A_55_P2240823	NM_001128606	Epb4.1	0.75	-1.2	0.37	-1.3	0.00	-1.8
A_55_P2018176	AK039146	Al504432	0.91	-1.1	0.25	-1.3	0.00	-1.8
A_51_P267544	NM_013522	Frg1	0.77	-1.1	0.12	-1.3	0.00	-1.8
A_51_P157083	NM_008086	Gas1	0.97	-1.0	0.29	-1.4	0.01	-1.8
A_51_P327751	NM_008331	Ifit1	0.72	-1.3	0.04	-1.8	0.02	-1.8
A_66_P139460	NM_177389	Mia3	0.75	-1.2	0.22	-1.3	0.00	-1.8
A_55_P2061645	AK140300	ND6	0.76	-1.1	0.02	-1.4	0.00	-1.8
A_55_P1981455	XM_001472240	LOC100044430	1.00	-1.0	0.09	-1.6	0.00	-1.8
A_52_P355169	NM_011607	Tnc	0.82	-1.2	0.23	-1.4	0.00	-1.8
A_55_P2130219	NM_133780	Tpr	0.88	-1.1	0.31	-1.2	0.00	-1.8
A_55_P1968304			0.15	-1.3	0.00	-1.8	0.00	-1.9
A_30_P01032544			0.51	-1.7	0.27	-1.6	0.04	-1.9
A_55_P2160416	NM_028765	Acox1	0.94	-1.1	0.97	-1.0	0.04	-1.9
A_55_P2073935	NM_013790	Abcc5	0.78	-1.2	0.03	-1.4	0.00	-1.9
A_51_P129803	NM_009786	Cacybp	0.31	-1.3	0.00	-1.7	0.00	-1.9
A_52_P650387	NM_001045530	Ccnj1	0.72	-1.2	0.06	-1.4	0.00	-1.9

A_52_P493620	NM_026218	Fgfr1op2	0.91	-1.1	0.54	-1.3	0.01	-1.9
A_55_P2080603	NM_031165	Hspa8	0.08	-1.4	0.00	-1.7	0.00	-1.9
A_51_P421876	NM_016850	Irf7	0.97	-1.1	0.10	-1.9	0.03	-1.9
A_55_P2076196	NM_001134644	CU041261.1	0.46	-1.7	0.17	-1.8	0.04	-1.9
A_51_P284665	U85712	Plcb1	0.92	1.1	0.66	-1.2	0.01	-1.9
A_51_P114693	NM_145562	Parm1	0.59	-1.4	0.26	-1.4	0.00	-1.9
A_52_P671812	XM_918536	LOC641192	0.12	-1.3	0.00	-1.8	0.00	-1.9
A_30_P01031385			0.75	-1.3	0.03	-1.9	0.00	-2.0
A_51_P305843	NM_025844	Chordc1	0.00	-1.6	0.00	-1.8	0.00	-2.0
A_55_P2069721	NM_031165	Hspa8	0.14	-1.4	0.00	-1.8	0.00	-2.0
A_55_P2001494	NM_013598	Kitl	0.58	-1.3	0.15	-1.3	0.00	-2.0
A_55_P2035320	NM_017373	Nfil3	0.89	-1.1	0.00	-1.9	0.00	-2.0
A_55_P2408588	NM_007489	Arntl	0.79	-1.3	0.16	-1.7	0.01	-2.1
A_51_P497985	NM_013484	C2	0.93	1.1	0.22	-1.6	0.00	-2.1
A_52_P12877	NM_031165	Hspa8	0.29	-1.4	0.00	-2.1	0.00	-2.1
A_55_P1974080	NM_001135127	LOC100189605	0.57	-1.7	0.05	-2.2	0.03	-2.1
A_55_P1979904	NM_001126319	Mup9	0.52	-1.8	0.17	-1.9	0.03	-2.1
A_55_P2141479	NR_004414	Rnu2	0.81	-1.2	0.03	-1.7	0.00	-2.1
A_55_P1962918	NM_001033450	Mnda	0.92	1.2	0.30	-1.7	0.03	-2.2
A_51_P520849	NM_009144	Sfrp2	0.77	1.4	0.28	-1.7	0.02	-2.2
A_52_P381484	NM_133903	Spon2	0.91	-1.2	0.75	-1.2	0.01	-2.2
A_55_P1953377			0.38	-2.1	0.07	-2.4	0.04	-2.3
A_55_P2153620	NM_001039959	Ahnak	0.67	-1.3	0.31	-1.3	0.00	-2.3
A_55_P2017636	NM_011580	Thbs1	0.95	-1.1	0.02	-1.7	0.00	-2.3
A_30_P01019464			0.99	-1.0	0.72	-1.3	0.03	-2.4
A_30_P01026324			0.70	-1.3	0.99	-1.0	0.00	-2.4
A_51_P146560	NM_018857	Msln	0.91	1.2	0.22	-2.0	0.03	-2.4
A_55_P2176963	NM_013559	Hsph1	0.22	-1.8	0.02	-2.0	0.00	-2.5
A_55_P2024155	NM_001033324	Zbtb16	0.90	-1.2	0.07	-2.5	0.02	-2.5
A_55_P1987290	NR_004413	Rnu1b6	0.86	-1.2	0.00	-2.3	0.00	-2.6
A_55_P2087985			0.04	-1.6	0.00	-2.4	0.00	-2.8
A_55_P2003513	NM_013559	Hsph1	0.15	-1.9	0.01	-2.1	0.00	-2.9
A_55_P1993404			0.00	-1.7	0.00	-2.6	0.00	-3.0
A_55_P2135967	XM_979793	Gm7816	0.00	-1.7	0.00	-2.7	0.00	-3.1
A_55_P1953143	NM_144783	Wt1	0.68	1.8	0.25	-2.1	0.01	-3.1
A_52_P460836	NM_177303	Lrrn4	1.00	1.0	0.08	-2.3	0.00	-3.3
A_52_P114889	NM_175309	Upk3b	0.92	1.2	0.28	-2.1	0.01	-3.3
A_55_P2087984	NM_001164671	Dnaja1	0.04	-1.8	0.00	-2.9	0.00	-3.4
A_55_P2009217	NR_004415	Rnu3b1	0.14	-4.1	0.00	-9.0	0.00	-7.2
A_55_P2068459	NM_010479	Hspa1a	0.00	-2.9	0.00	-6.8	0.00	-7.9

3.3.2 BbF Lung. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 25, 50, and 100 mg/kg-bw/day benzo(b)fluoranthene in the lung. The list is sorted from highest to lowest fold change in the 100 mg/kg-bw/day treatment group.

25 mg/kg-bw/day	50 mg/kg-bw/day	100 mg/kg-bw/day
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Agilent Probe	Accession Number	Gene Symbol	FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_51_P279693	NM_009992	Cyp1a1	0.55	-2.1	0.99	1.0	0.00	19.1
A_51_P255456	NM_009994	Cyp1b1	0.69	1.5	0.35	1.8	0.00	17.5
A_55_P1960735	NM_011819	Gdf15	0.00	4.8	0.00	4.2	0.00	8.0
A_51_P254425	NM_009644	Ahrr	0.07	2.0	0.00	2.4	0.00	7.8
A_55_P2032081	NM_016974	Dbp	0.00	4.4	0.00	6.0	0.00	7.7
A_55_P2032079	NM_016974	Dbp	0.00	4.2	0.00	5.7	0.00	7.3
A_55_P1986282	NM_0011111099	Cdkn1a	0.00	3.1	0.00	4.1	0.00	7.2
A_51_P414396	NM_153127	Mmrn2	0.00	2.2	0.00	3.0	0.00	6.2
A_55_P1959500	NM_172759	Ces5	0.00	4.4	0.00	4.6	0.00	5.9
A_51_P204740	NM_133654	Cd34	0.01	1.6	0.00	2.1	0.00	5.8
A_52_P675395	NM_007722	Cxcr7	0.02	2.0	0.00	2.3	0.00	5.8
A_51_P363947	NM_007669	Cdkn1a	0.00	2.6	0.00	2.7	0.00	5.6
A_55_P2143025	NM_013657	Sema3c	0.09	1.4	0.00	2.4	0.00	5.0
A_52_P24308	NM_011670	Uchl1	0.68	1.2	0.17	1.4	0.00	5.0
A_66_P118600	NM_008480	Lama1	0.02	2.2	0.00	2.5	0.00	4.8
A_55_P1954835	XM_001475752	LOC100046186	0.15	1.5	0.00	2.2	0.00	4.5
A_55_P2090429	NM_010063	Dync1i1	0.93	-1.1	0.58	1.2	0.00	4.4
A_55_P2101340	NM_019511	Ramp3	0.24	1.3	0.00	2.1	0.00	4.3
A_51_P329928	NM_013750	Phlda3	0.00	2.1	0.00	2.4	0.00	4.1
A_51_P516133	NM_015786	Hist1h1c	0.61	1.2	0.00	1.7	0.00	3.9
A_51_P231320	NM_008611	Mmp8	0.32	1.5	0.06	1.8	0.00	3.9
A_55_P2143572	AK020725		0.18	1.3	0.00	2.1	0.00	3.8
A_55_P2095271	NM_153805	Pkn3	0.00	2.0	0.00	2.2	0.00	3.8
A_55_P1953169	NM_011315	Saa3	0.85	-1.2	0.46	-1.6	0.00	3.6
A_55_P2107528			0.01	1.9	0.01	1.8	0.00	3.4
A_51_P405397	NM_007899	Ecm1	0.01	1.6	0.01	1.6	0.00	3.4
A_55_P2119257	NM_008871	Serpine1	0.04	1.5	0.00	1.8	0.00	3.4
A_55_P1972948	NM_176954	Brunol5	0.00	1.7	0.00	2.2	0.00	3.3
A_55_P1972034	XM_001476091	Muc16	0.85	1.3	0.99	1.0	0.01	3.3
A_52_P539310	NM_001160326	Serp2	0.00	1.7	0.00	1.9	0.00	3.3
A_55_P2005213	NM_145603	Ces2	0.00	2.7	0.00	2.4	0.00	3.2
A_55_P1988048	NM_001163522	Emcn	0.03	1.5	0.06	1.4	0.00	3.2
A_55_P2015292	NM_008521	Ltc4s	0.01	1.6	0.00	1.8	0.00	3.2
A_55_P2037812	NM_023245	Palmd	0.00	2.0	0.00	2.4	0.00	3.2
A_55_P2011146	NM_178608	Reep1	0.02	1.5	0.00	1.8	0.00	3.2
A_51_P487073	NM_138684	Wfdc12	0.01	2.7	0.10	1.7	0.00	3.2
A_52_P627068	NM_170593	Disp2	0.02	1.8	0.00	1.9	0.00	3.1
A_55_P2004099	XM_001477458	Gm9933	0.74	-1.3	0.62	-1.4	0.00	3.1
A_55_P2145804	NM_026531	Aen	0.00	2.0	0.00	2.1	0.00	2.9
A_55_P2023637	NM_021400	Prg4	0.85	1.2	0.89	-1.1	0.00	2.9
A_55_P2405784	AK141429	BC023202	0.01	1.4	0.00	1.6	0.00	2.8
A_55_P2009225	NM_133654	Cd34	0.30	1.2	0.01	1.5	0.00	2.8
A_30_P01024344			0.00	1.9	0.00	1.8	0.00	2.7
A_55_P2141860	NM_026531	Aen	0.00	1.9	0.00	1.9	0.00	2.7

A_52_P612803	NM_009831	Ccng1	0.00	1.8	0.00	2.0	0.00	2.7
A_51_P307168	NM_026993	Ddah1	0.01	1.6	0.00	2.8	0.00	2.7
A_51_P480328	NM_133222	Eltd1	0.25	1.5	0.03	1.7	0.00	2.7
A_55_P2027836	NM_020275	Tnfrsf10b	0.00	1.6	0.00	1.6	0.00	2.7
A_52_P151393	NM_198860	Al646023	0.00	1.6	0.00	1.8	0.00	2.6
A_55_P2137406	NM_007527	Bax	0.00	2.0	0.00	2.2	0.00	2.6
A_55_P2142251	NM_054045	Hist2h3c2	0.86	1.1	0.09	1.4	0.00	2.6
A_52_P380263	NM_013723	Podxl	0.75	1.1	0.05	1.4	0.00	2.6
A_52_P87839	NM_013657	Sema3c	0.80	1.1	0.03	1.5	0.00	2.6
A_66_P138053	AK044848		0.06	1.6	0.01	1.9	0.00	2.5
A_52_P29953	NM_175398	6530418L21Rik	0.00	1.7	0.00	1.7	0.00	2.5
A_55_P2040245	NM_001039485	Fam38b	0.15	1.3	0.09	1.3	0.00	2.5
A_51_P111962	NM_001141922	mCG_21548	0.58	1.2	0.51	1.2	0.00	2.5
A_51_P124535	NM_008590	Mest	0.28	1.3	0.13	1.4	0.00	2.5
A_55_P1963017	NM_001082543	Stfa1	0.44	1.5	0.42	1.4	0.00	2.5
A_51_P323620	NM_144543	Thyn1	0.00	1.9	0.00	2.0	0.00	2.5
A_55_P2031999	NM_145448	9030617O03Rik	0.01	1.6	0.00	1.8	0.00	2.4
A_55_P2162160	NM_009672	Anp32a	0.31	1.7	0.06	2.0	0.00	2.4
A_55_P1964648	NM_001037719	Btla	0.00	1.9	0.00	2.4	0.00	2.4
A_66_P111562	NM_007631	Ccnd1	0.14	1.4	0.00	1.6	0.00	2.4
A_52_P311853	NM_030143	Ddit4l	0.20	1.3	0.02	1.5	0.00	2.4
A_51_P449824	XM_001471750	Exoc3l2	0.77	1.2	0.73	1.2	0.00	2.4
A_51_P350403	NM_009148	Exoc4	0.02	1.4	0.00	1.8	0.00	2.4
A_52_P686785	NM_053247	Lyve1	0.00	1.9	0.00	2.0	0.00	2.4
A_51_P464918	NM_019453	Mefv	0.00	2.1	0.01	1.6	0.00	2.4
A_51_P146560	NM_018857	Msln	0.81	1.3	0.94	1.1	0.03	2.4
A_51_P139651	NM_008713	Nos3	0.10	1.4	0.05	1.4	0.00	2.4
A_55_P2006008	NM_025429	Serpinb1a	0.01	1.4	0.00	1.8	0.00	2.4
A_51_P267933	NM_175692	Snhg11	0.06	2.0	0.04	1.9	0.00	2.4
A_51_P415220	NM_009517	Zmat3	0.08	1.3	0.00	1.6	0.00	2.4
A_30_P01027010			0.00	1.6	0.00	1.9	0.00	2.3
A_30_P01020960			0.00	1.6	0.00	1.9	0.00	2.3
A_66_P115580	AK076360		0.27	1.4	0.05	1.5	0.00	2.3
A_51_P112308	NM_026931	1810011O10Rik	0.92	-1.0	0.79	1.1	0.00	2.3
A_51_P128987	NM_008012	Akr1b8	0.95	1.0	0.89	1.1	0.00	2.3
A_52_P487686	NM_001082546	BC100530	0.02	3.1	0.60	1.4	0.03	2.3
A_51_P181286	NM_001033122	Cd69	0.09	1.4	0.00	1.6	0.00	2.3
A_51_P401907	NM_001082547	Gm5483	0.72	1.2	0.29	1.4	0.00	2.3
A_51_P187750	NM_153408	Neurl3	0.98	-1.0	0.74	1.2	0.00	2.3
A_51_P256827	NM_013650	S100a8	1.00	-1.0	0.19	1.6	0.00	2.3
A_55_P2094925	NM_011157	Srgn	0.02	1.4	0.00	1.9	0.00	2.3
A_52_P398925	NM_173869	Stfa2l1	0.61	1.3	0.14	1.5	0.00	2.3
A_51_P175580	NM_021897	Trp53inp1	0.00	1.7	0.00	2.1	0.00	2.3
A_55_P2007713	NM_053082	Tspan4	0.00	1.6	0.00	1.8	0.00	2.3
A_30_P01025511			0.00	1.7	0.01	1.5	0.00	2.2
A_55_P2023542	NM_007719	Ccr7	0.41	1.3	0.00	1.8	0.00	2.2
A_52_P70796	NM_007551	Cxcr5	0.10	1.5	0.06	1.5	0.00	2.2
A_52_P325527	NM_010103	Edil3	0.93	1.0	0.60	1.2	0.00	2.2
A_55_P2002578	NM_010145	Ephx1	0.00	1.6	0.00	1.7	0.00	2.2

A_55_P2063426	XR_004815	Gm5649	0.91	1.1	0.83	1.1	0.00	2.2
A_55_P2109122	NM_023422	Hist1h2bc	0.24	1.2	0.00	1.5	0.00	2.2
A_51_P371750	NM_010766	Marco	0.39	1.5	0.09	1.8	0.00	2.2
A_55_P2090025	NM_008590	Mest	0.65	1.2	0.57	1.2	0.00	2.2
A_51_P270184	NM_025811	Nhlrc2	0.73	1.1	0.07	1.3	0.00	2.2
A_51_P282760	NM_011066	Per2	0.08	1.5	0.04	1.5	0.00	2.2
A_52_P236705	NM_133229	Ripply3	0.40	1.3	0.00	1.8	0.00	2.2
A_55_P2008936	NM_001102414	Slc2a9	0.05	1.4	0.01	1.5	0.00	2.2
A_55_P2039320	NM_178679	Zfp365	0.19	1.3	0.00	1.6	0.00	2.2
A_30_P01026536			0.04	1.4	0.00	1.6	0.00	2.1
A_30_P01026613			0.81	1.1	0.18	1.4	0.00	2.1
A_55_P2136121	NM_145448	9030617O03Rik	0.00	1.5	0.00	1.8	0.00	2.1
A_51_P424959	NM_007528	Bcl6b	0.00	1.8	0.01	1.7	0.00	2.1
A_55_P2124791	NM_001109991	Col18a1	1.00	1.0	0.98	1.0	0.00	2.1
A_51_P498631	NM_018769	Dfna5	0.81	1.1	0.27	1.3	0.00	2.1
A_55_P2056729	NM_008342	Igfbp2	0.00	1.7	0.00	1.8	0.00	2.1
A_51_P212782	NM_008361	Il1b	0.53	1.4	0.30	1.4	0.00	2.1
A_55_P2064333	NM_010680	Lama3	0.07	1.7	0.29	1.4	0.00	2.1
A_55_P2034027	NM_008713	Nos3	0.19	1.3	0.38	1.2	0.00	2.1
A_51_P424338	NM_008706	Nqo1	0.97	-1.0	0.82	-1.1	0.00	2.1
A_52_P587738	NM_008773	P2ry2	0.30	1.3	0.40	1.2	0.00	2.1
A_51_P383194	NM_008804	Pde9a	0.00	1.5	0.00	1.5	0.00	2.1
A_55_P2173313	NM_019677	Plcb1	0.03	1.6	0.00	2.0	0.00	2.1
A_55_P2107155	NM_029182	Rasd2	0.53	1.3	0.02	1.8	0.00	2.1
A_52_P425839	NM_181596	Retnlg	0.93	1.1	0.53	1.3	0.00	2.1
A_51_P329332	NM_054087	Slc19a2	0.01	1.6	0.01	1.6	0.00	2.1
A_55_P2068673	NM_025285	Stmn2	0.30	1.2	0.00	1.6	0.00	2.1
A_55_P1979893	NM_017376	Tef	0.00	1.7	0.00	1.9	0.00	2.1
A_55_P2088145			0.05	1.5	0.03	1.6	0.00	2.0
A_30_P01025790			0.03	1.4	0.00	1.6	0.00	2.0
A_30_P01022788			0.89	1.1	0.09	1.3	0.00	2.0
A_51_P367780	NM_029981	Adamtsl2	0.07	1.5	0.30	1.3	0.00	2.0
A_55_P2169227	NM_177716	Al836003	0.59	1.2	0.22	1.3	0.00	2.0
A_55_P2002849	NM_175178	Aifm3	0.38	1.2	0.28	1.2	0.00	2.0
A_55_P2059352	NM_001109991	Col18a1	1.00	1.0	0.98	-1.0	0.00	2.0
A_51_P461429	NM_007825	Cyp7b1	0.94	-1.0	0.47	1.1	0.00	2.0
A_55_P1959763	NM_007826	Dach1	0.27	1.7	0.06	2.0	0.02	2.0
A_51_P110471	NM_026993	Ddah1	0.00	1.8	0.00	1.9	0.00	2.0
A_55_P1964183	NM_001077694	Dysf	0.84	1.1	0.76	1.1	0.00	2.0
A_66_P104815	NM_007899	Ecm1	0.97	-1.0	0.60	1.2	0.00	2.0
A_55_P2002577	NM_010145	Ephx1	0.00	1.5	0.00	1.7	0.00	2.0
A_52_P63343	NM_001033302	Gm129	0.23	1.3	0.03	1.4	0.00	2.0
A_51_P247694	NM_173036	Gpr97	0.09	1.4	0.21	1.3	0.00	2.0
A_55_P2009752	NM_172563	Hlf	0.16	1.5	0.16	1.4	0.00	2.0
A_55_P2085295	NM_198411	Inf2	0.25	1.2	0.08	1.3	0.00	2.0
A_66_P106388	NM_029499	Ms4a4c	0.26	1.4	0.05	1.6	0.00	2.0
A_55_P1953728	NM_016701	Nes	0.05	1.3	0.01	1.4	0.00	2.0
A_55_P2008634	NM_053135	Pcdhb10	0.60	1.2	0.15	1.4	0.00	2.0
A_55_P2000158	NM_181585	Pik3r3	0.49	1.2	0.07	1.4	0.00	2.0

A_51_P229602	NM_008882	Plxna2	0.34	1.3	0.09	1.4	0.00	2.0
A_51_P382152	NM_011171	Procr	0.83	1.1	0.87	1.1	0.00	2.0
A_52_P318673	NM_009117	Saa1	0.92	-1.1	0.67	-1.2	0.00	2.0
A_55_P2003813	NM_153522	Scn3b	0.00	1.7	0.00	1.7	0.00	2.0
A_55_P1965154	NM_025565	Spc25	0.00	5.1	0.00	4.3	0.00	2.0
A_55_P2035286	NM_010931	Uhrf1	0.00	2.4	0.00	2.5	0.00	2.0
A_30_P01027827			0.03	1.6	0.00	1.7	0.00	1.9
A_30_P01032002			0.02	1.6	0.06	1.4	0.00	1.9
A_30_P01032951			0.02	1.3	0.00	1.7	0.00	1.9
A_55_P1953533	AK134774		0.68	1.3	0.60	1.3	0.01	1.9
A_30_P01032234			0.79	1.2	0.31	1.4	0.01	1.9
A_30_P01023701			0.22	1.5	0.12	1.5	0.00	1.9
A_30_P01021048			0.35	1.2	0.02	1.4	0.00	1.9
A_30_P01031037			0.71	1.1	0.37	1.2	0.00	1.9
A_55_P2055819	NM_001037722	Adam15	0.32	1.3	0.04	1.4	0.00	1.9
A_55_P2143070	NM_007494	Ass1	0.14	1.3	0.02	1.4	0.00	1.9
A_55_P1969356	NM_145536	BC020535	0.01	1.5	0.00	1.7	0.00	1.9
A_52_P469789	NM_007588	Calcr	0.88	1.1	0.70	1.2	0.00	1.9
A_55_P2079079	NM_009844	Cd19	0.01	1.7	0.00	1.8	0.00	1.9
A_55_P2394490	AK052609	D630004K10Rik	0.39	1.3	0.56	1.2	0.00	1.9
A_51_P153063	NM_029310	Fabp12	0.40	1.3	0.19	1.4	0.00	1.9
A_51_P142153	NM_030163	Filip1l	0.02	1.4	0.00	1.4	0.00	1.9
A_55_P2010567	XM_975768	Gm7564	0.32	1.3	0.32	1.3	0.00	1.9
A_51_P180140	NM_175663	Hist1h2ba	0.54	1.2	0.06	1.3	0.00	1.9
A_55_P2177154	NM_178200	Hist1h2bm	0.37	1.2	0.03	1.3	0.00	1.9
A_52_P615375	NM_178218	Hist3h2a	0.30	1.3	0.09	1.3	0.00	1.9
A_55_P1989956	NM_001081298	Lphn2	0.77	1.1	0.28	1.2	0.00	1.9
A_55_P2148534	BC096461	Nr1d2	0.03	1.7	0.00	1.8	0.00	1.9
A_52_P303891	NM_011584	Nr1d2	0.01	1.8	0.00	1.9	0.00	1.9
A_55_P2178678	NM_033321	P2rx5	0.96	1.0	0.91	1.1	0.00	1.9
A_55_P2090359	NM_148937	Plcd4	0.83	1.1	0.61	1.1	0.00	1.9
A_52_P679105	NM_029614	Prss23	0.42	1.3	0.10	1.5	0.00	1.9
A_55_P2168628	NM_133678	Sac3d1	0.00	1.4	0.00	1.6	0.00	1.9
A_55_P1960238	NM_172659	Slc2a6	0.75	1.2	0.30	1.3	0.00	1.9
A_52_P193925	NM_028072	Sulf2	0.80	1.1	0.55	1.2	0.00	1.9
A_51_P448664	NM_011539	Tbxas1	0.49	1.4	0.26	1.5	0.00	1.9
A_55_P2081616	NM_001164081	Timeless	0.00	1.6	0.00	1.7	0.00	1.9
A_51_P269203	NM_022017	Trpv4	0.49	1.4	0.47	1.4	0.02	1.9
A_55_P1973770	NM_029770	Unc5b	0.97	1.0	0.52	1.2	0.00	1.9
A_55_P2071952	NM_178909	Wdr92	0.99	1.0	0.70	-1.2	0.02	1.9
A_55_P1976204	U09507		0.02	1.5	0.05	1.4	0.00	1.8
A_52_P431859	AK167772		0.00	1.7	0.01	1.4	0.00	1.8
A_30_P01027042			0.00	1.8	0.01	1.5	0.00	1.8
A_30_P01021631			0.00	2.2	0.02	1.5	0.00	1.8
A_30_P01029956			0.03	1.3	0.00	1.4	0.00	1.8
A_30_P01031506			0.36	1.3	0.19	1.4	0.00	1.8
A_30_P01021359			0.22	1.2	0.00	1.4	0.00	1.8
A_55_P2019577	NR_027818	1500011B03Rik	0.38	1.4	0.13	1.6	0.01	1.8
A_55_P2262593	AK142388	4930429F24Rik	0.11	1.3	0.06	1.3	0.00	1.8

A_51_P113178	NM_175398	6530418L21Rik	0.10	1.4	0.01	1.5	0.00	1.8
A_51_P245368	NM_011075	Abcb1b	0.53	1.2	0.16	1.2	0.00	1.8
A_55_P2013158	NM_178688	Ablim1	0.63	1.1	0.00	1.4	0.00	1.8
A_55_P2320313	BC058714	Al852064	0.70	1.1	0.15	1.3	0.00	1.8
A_51_P392005	NM_007592	Car8	0.38	-1.4	0.31	1.4	0.01	1.8
A_55_P2079927	NM_201362	Ccdc68	0.11	1.4	0.01	1.6	0.00	1.8
A_55_P2052062	NM_010818	Cd200	0.15	1.4	0.01	1.6	0.00	1.8
A_51_P491350	NM_009932	Col4a2	0.40	1.2	0.21	1.2	0.00	1.8
A_51_P300506	NM_183405	Cox6b2	0.07	1.3	0.18	1.2	0.00	1.8
A_51_P384629	NM_009983	Ctsd	0.81	1.1	0.29	1.2	0.00	1.8
A_52_P559975	NM_009909	Cxcr2	0.54	1.3	0.51	1.2	0.00	1.8
A_55_P1980262	NM_001018063	Cxx1b	0.80	1.1	0.16	1.3	0.00	1.8
A_55_P2111355	NM_178444	Egfl7	0.00	1.5	0.00	1.5	0.00	1.8
A_51_P140641	NM_145570	Fam176a	0.39	1.2	0.12	1.3	0.00	1.8
A_51_P351896	NM_133187	Fam198b	0.46	1.3	0.15	1.4	0.00	1.8
A_51_P468464	NM_201352	Gdpd5	0.79	1.1	0.61	1.2	0.00	1.8
A_55_P2075919	NM_001145015	Gm14203	0.28	1.3	0.36	1.3	0.00	1.8
A_55_P1960936	XM_001473982	Gm2562	0.98	-1.0	1.00	-1.0	0.01	1.8
A_55_P2114779	NM_015764	Greb1	0.79	-1.2	0.75	1.2	0.01	1.8
A_55_P2114776	NM_015764	Greb1	0.58	1.2	0.52	1.2	0.00	1.8
A_51_P172231	NM_026960	Gsdmd	0.12	1.3	0.11	1.3	0.00	1.8
A_55_P2037343	NM_010391	H2-Q10	0.09	1.5	0.45	1.2	0.00	1.8
A_66_P135391	NM_008342	Igfbp2	0.03	1.5	0.00	1.6	0.00	1.8
A_51_P451338	NM_010588	Jag2	0.75	1.1	0.66	1.1	0.00	1.8
A_55_P2086203	NM_008434	Kcnq1	0.22	1.2	0.02	1.3	0.00	1.8
A_55_P2122020	NM_010637	Klf4	0.03	1.4	0.14	1.3	0.00	1.8
A_51_P354706	NM_010094	Lefty1	0.01	1.5	0.00	1.5	0.00	1.8
A_52_P137765	NM_019390	Lmna	0.04	1.3	0.19	1.2	0.00	1.8
A_55_P2095311	XM_001475753	Ly6g	0.20	1.3	0.19	1.3	0.00	1.8
A_55_P2071858	NM_008598	Mgmt	0.16	1.3	0.03	1.4	0.00	1.8
A_55_P2118694	NM_027280	Nkd1	0.59	1.2	0.12	1.4	0.00	1.8
A_55_P1967736	NM_027280	Nkd1	0.40	1.2	0.05	1.4	0.00	1.8
A_55_P2103452	NM_010934	Npy1r	0.95	-1.0	0.29	1.2	0.00	1.8
A_52_P393314	NM_011027	P2rx7	0.28	1.2	0.12	1.3	0.00	1.8
A_51_P337771	NM_053142	Pcdhb17	0.75	1.1	0.09	1.3	0.00	1.8
A_51_P258493	NM_011067	Per3	0.03	1.5	0.00	1.6	0.00	1.8
A_52_P302433	NM_008873	Plau	0.36	1.8	0.04	2.4	0.14	1.8
A_55_P1960496	NM_025800	Ppp1r2	0.57	1.2	0.15	1.3	0.00	1.8
A_51_P332652	NM_172574	Pqlc3	0.24	1.3	0.05	1.4	0.00	1.8
A_51_P170959	AK005011	Proz	0.76	-1.2	0.99	1.0	0.01	1.8
A_55_P2039225	NM_001081155	Rap1gap	0.67	1.1	0.04	1.4	0.00	1.8
A_51_P282508	NM_007484	Rhoc	0.22	1.3	0.08	1.3	0.00	1.8
A_55_P2304864	NM_011282	Ros1	0.85	1.1	0.39	1.3	0.00	1.8
A_51_P246903	NM_026467	Rps27l	0.00	1.5	0.00	1.6	0.00	1.8
A_52_P73620	NM_198028	Serpinb10	0.02	1.9	0.16	1.5	0.01	1.8
A_55_P2121608	AK153771	Sox4	0.32	1.3	0.04	1.5	0.00	1.8
A_52_P571371	NM_027495	Tmem144	0.31	1.3	0.01	1.5	0.00	1.8
A_65_P10673	NM_172614	Tmem44	0.02	1.5	0.00	1.7	0.00	1.8
A_52_P112110	NM_145987	Tmem82	0.24	1.3	0.03	1.4	0.00	1.8

A_52_P260555	NM_009509	Vil1	0.88	1.1	0.50	1.2	0.00	1.8
A_30_P01023785			0.17	1.5	0.16	1.5	0.01	1.7
A_30_P01018535			0.94	1.1	0.47	1.3	0.01	1.7
A_52_P425092			0.83	1.1	0.61	1.2	0.00	1.7
A_55_P2021149	AK146816		0.46	1.2	0.37	1.2	0.00	1.7
A_52_P670263	BC036146		0.92	1.0	0.65	1.1	0.00	1.7
A_30_P01026167			0.34	1.2	0.04	1.4	0.00	1.7
A_30_P01019638			0.03	1.3	0.00	1.3	0.00	1.7
A_30_P01028922			0.76	1.1	0.81	1.1	0.00	1.7
A_51_P301636	NM_001109685	9030409G11Rik	0.10	1.3	0.25	1.2	0.00	1.7
A_52_P665675	NM_013454	Abca1	0.88	1.1	0.05	1.4	0.00	1.7
A_55_P2082688	NM_021515	Ak1	1.00	1.0	0.95	-1.0	0.00	1.7
A_55_P2142430	NM_001033350	Bank1	0.17	1.4	0.03	1.6	0.00	1.7
A_55_P2029846	NM_001113283	BC031353	0.00	1.4	0.00	1.5	0.00	1.7
A_51_P110301	NM_009778	C3	0.86	-1.1	0.64	-1.2	0.02	1.7
A_51_P343252	NM_009842	Cd151	0.72	1.1	0.11	1.2	0.00	1.7
A_55_P2181904	NM_027152	Cd164l2	0.99	1.0	0.77	1.1	0.00	1.7
A_66_P101835	NM_007646	Cd38	0.78	1.1	0.10	1.4	0.00	1.7
A_51_P372550	NM_026770	Cgref1	0.01	1.7	0.05	1.5	0.00	1.7
A_55_P2148906	NM_028870	Cltb	0.72	1.1	0.37	1.1	0.00	1.7
A_55_P1971724	NM_007758	Cr2	0.00	1.6	0.00	1.8	0.00	1.7
A_55_P2016462	NM_021274	Cxcl10	0.94	-1.1	0.67	-1.2	0.04	1.7
A_55_P2344608	AK081893	D7Wsu130e	0.67	1.2	0.56	1.2	0.00	1.7
A_55_P2182026	NM_183160	E030010A14Rik	0.77	1.2	0.48	1.3	0.04	1.7
A_55_P1954221	NM_010128	Emp1	0.00	1.3	0.12	1.2	0.00	1.7
A_52_P518997	NM_010139	Epha2	0.20	1.3	0.07	1.3	0.00	1.7
A_52_P365011	NM_010194	Fes	0.01	1.4	0.00	1.3	0.00	1.7
A_55_P2026547	NM_199366	Gal3st2	0.04	1.5	0.08	1.4	0.00	1.7
A_52_P351669	NM_027375	Gcc2	0.03	1.3	0.00	1.4	0.00	1.7
A_51_P394847	NR_024599	Gm11346	0.62	1.1	0.05	1.4	0.00	1.7
A_55_P2105843	XM_001472740	Gm2371	0.95	-1.1	0.96	-1.0	0.01	1.7
A_55_P1954092	XM_001473985	Gm2563	0.87	-1.1	0.92	-1.1	0.01	1.7
A_52_P69558	XM_001475933	Gm8221	0.98	1.0	0.87	1.1	0.00	1.7
A_55_P2084691	NM_178189	Hist1h2ac	0.74	1.1	0.32	1.2	0.00	1.7
A_55_P2036813	NM_030082	Hist3h2ba	0.56	1.2	0.49	1.2	0.00	1.7
A_51_P179701	NM_008250	Hlx	0.61	1.1	0.14	1.2	0.00	1.7
A_55_P2052563	NM_010495	Id1	0.06	1.8	0.44	1.3	0.02	1.7
A_51_P470079	NM_010555	Il1r2	0.25	1.5	0.82	1.1	0.02	1.7
A_55_P1998299	NM_001005608	Itgb4	0.48	1.2	0.84	1.1	0.00	1.7
A_52_P350554	NM_008420	Kcnb1	0.81	1.1	0.31	1.3	0.00	1.7
A_55_P2145617	NM_028770	Krt80	0.66	1.1	0.21	1.2	0.00	1.7
A_55_P2094641	XM_001474594	LOC100044122	0.57	1.2	0.18	1.2	0.00	1.7
A_52_P480351	NM_033325	Loxl2	0.80	1.1	0.64	1.1	0.00	1.7
A_51_P234728	AK032901	Lpar6	0.58	1.2	0.16	1.3	0.00	1.7
A_51_P295237	NM_172784	Lrp11	0.89	1.0	0.61	1.1	0.00	1.7
A_55_P2039250	NM_026037	Mboat2	0.21	1.4	0.31	1.3	0.00	1.7
A_51_P360492	NM_008567	Mcm6	0.06	1.9	0.00	2.2	0.02	1.7
A_51_P426270	NM_008597	Mgp	0.60	1.2	0.32	1.2	0.00	1.7
A_52_P167278	NM_172308	Mthfd1l	0.54	1.2	0.01	1.4	0.00	1.7

A_55_P2042086	NM_008738	Nrtn	0.67	1.1	0.33	1.2	0.00	1.7
A_55_P2142172	NM_001011761	Olfr1229	0.00	1.4	0.00	1.5	0.00	1.7
A_52_P111031	NM_001013753	Pcdh17	0.58	1.2	0.12	1.3	0.00	1.7
A_55_P2081488	NM_009402	Pglyrp1	0.18	1.3	0.61	1.1	0.00	1.7
A_55_P2170813	NM_001164053	Pkig	0.46	1.2	0.02	1.4	0.00	1.7
A_66_P119034	NM_013737	Pla2g7	0.47	1.2	0.62	1.2	0.00	1.7
A_51_P290576	NM_152804	Plk2	0.33	1.3	0.02	1.5	0.00	1.7
A_55_P2000533	NM_012048	Polk	0.77	1.1	0.23	1.2	0.00	1.7
A_55_P2089233	NM_011136	Pou2af1	0.35	1.3	0.00	1.6	0.00	1.7
A_55_P1992084	NM_008981	Ptprg	0.41	1.2	0.02	1.4	0.00	1.7
A_55_P2105638	NM_001033348	Ralgapa2	0.53	1.2	0.05	1.3	0.00	1.7
A_55_P2068096	NM_001081155	Rap1gap	0.58	1.2	0.05	1.4	0.00	1.7
A_55_P2010197	NM_144834	Serpina10	0.68	-1.2	0.61	1.2	0.00	1.7
A_51_P161354	NM_144907	Sesn2	0.06	1.4	0.17	1.3	0.00	1.7
A_51_P366672	NM_153170	Slc36a2	0.31	1.2	0.32	1.2	0.00	1.7
A_55_P2187076	NM_011430	Sncg	0.08	1.3	0.00	1.5	0.00	1.7
A_51_P236267	NM_009183	St8sia4	0.75	1.1	0.01	1.5	0.00	1.7
A_52_P62444	NM_013681	Syn2	0.36	1.4	0.09	1.5	0.01	1.7
A_55_P2168168	NM_031384	Tex11	0.03	1.5	0.00	1.8	0.00	1.7
A_51_P291417	NM_009378	Thbd	0.85	1.1	0.02	1.7	0.00	1.7
A_55_P2102295	NM_145599	Tmem184c	0.31	1.3	0.24	1.2	0.00	1.7
A_51_P243808	NM_153137	Traf3ip3	0.09	1.4	0.00	1.6	0.00	1.7
A_55_P2067453	NM_028841	Tspan17	0.31	1.2	0.02	1.4	0.00	1.7
A_66_P136186	NM_009516	Wee1	0.41	1.3	0.20	1.3	0.00	1.7
A_51_P220343	NM_018865	Wisp1	0.26	1.3	0.05	1.4	0.00	1.7
A_30_P01018771			0.00	2.0	0.00	1.7	0.00	1.6
A_30_P01030953			0.00	2.2	0.00	1.7	0.00	1.6
A_30_P01022528			0.22	1.3	0.00	1.5	0.00	1.6
A_55_P2159555	AK028364		0.85	1.1	0.83	1.1	0.04	1.6
A_30_P01033517			0.22	1.4	0.49	1.2	0.01	1.6
A_30_P01022942			0.64	1.1	0.71	1.1	0.00	1.6
A_52_P336768			0.53	1.1	0.00	1.4	0.00	1.6
A_30_P01027743			0.30	1.3	0.06	1.4	0.00	1.6
A_30_P01030148			0.85	1.1	0.38	1.2	0.00	1.6
A_30_P01020003			0.50	1.2	0.10	1.3	0.00	1.6
A_30_P01019169			0.42	1.2	0.00	1.4	0.00	1.6
A_30_P01019146			0.31	1.3	0.11	1.4	0.00	1.6
A_30_P01019476			0.71	1.1	0.57	1.1	0.00	1.6
A_30_P01025143			0.40	1.2	0.06	1.3	0.00	1.6
A_30_P01026520			0.17	1.3	0.14	1.3	0.00	1.6
A_30_P01024670			0.27	1.1	0.01	1.3	0.00	1.6
A_55_P2184449	AK134871		0.01	1.4	0.26	1.2	0.00	1.6
A_30_P01033274			0.20	1.3	0.01	1.4	0.00	1.6
A_30_P01026752			0.46	1.2	0.13	1.3	0.00	1.6
A_55_P2129316			0.81	1.1	0.32	1.2	0.00	1.6
A_51_P252677	NM_026738	1110007C09Rik	0.03	1.2	0.08	1.2	0.00	1.6
A_52_P267824	NM_197999	2210023G05Rik	0.09	1.4	0.32	1.2	0.00	1.6
A_55_P2095899	XM_001476219	2310057B04Rik	0.22	1.2	0.13	1.3	0.00	1.6
A_51_P214470	NM_173744	2610019F03Rik	0.62	1.1	0.08	1.3	0.00	1.6

A_55_P2026982	NM_173744	2610019F03Rik	0.99	1.0	0.47	1.2	0.00	1.6
A_51_P358243	NM_029840	2610029I01Rik	0.26	1.2	0.01	1.4	0.00	1.6
A_51_P369252	NM_001080995	4632434I11Rik	0.01	1.5	0.00	1.6	0.00	1.6
A_55_P2279807	AK160312	6720427I07Rik	0.00	2.1	0.00	1.6	0.00	1.6
A_66_P130310	NM_001170954	A4galt	0.50	1.1	0.04	1.3	0.00	1.6
A_55_P2172396	NM_178796	A530064D06Rik	0.65	1.1	0.43	1.2	0.00	1.6
A_51_P374869	NM_013850	Abca7	0.07	1.3	0.10	1.3	0.00	1.6
A_55_P1953846	NM_013851	Abca8b	0.39	1.2	0.30	1.2	0.00	1.6
A_55_P1969477	NM_011076	Abcb1a	0.39	1.3	0.27	1.3	0.00	1.6
A_52_P489778	NM_178688	Ablim1	0.47	1.1	0.00	1.5	0.00	1.6
A_55_P2047305	NM_001012765	Adcy5	0.55	1.3	0.93	1.0	0.02	1.6
A_51_P259603	NM_007407	Adcyap1r1	0.63	1.2	0.57	1.2	0.03	1.6
A_55_P1988623	NM_001164099	Add3	0.40	1.2	0.00	1.3	0.00	1.6
A_55_P2004248	NM_133237	Apcdd1	0.99	-1.0	0.02	2.6	0.29	1.6
A_55_P2123491	NM_001159407	B3gnt5	0.18	1.4	0.10	1.4	0.01	1.6
A_52_P277104	NM_001033350	Bank1	0.27	1.5	0.03	1.8	0.02	1.6
A_51_P165182	NM_028967	Batf2	0.92	1.1	0.60	1.2	0.00	1.6
A_55_P2100739	NM_145601	BC016201	0.18	1.2	0.02	1.4	0.00	1.6
A_55_P1981836	NM_145536	BC020535	0.01	1.5	0.01	1.5	0.00	1.6
A_55_P2018191	NM_145536	BC020535	0.06	1.5	0.02	1.5	0.00	1.6
A_55_P2073308	NM_009668	Bin1	0.21	1.2	0.04	1.3	0.00	1.6
A_55_P2115401	NM_009763	Bst1	0.78	1.2	0.47	1.3	0.03	1.6
A_55_P2042612	NM_144938	C1s	0.77	1.2	0.67	1.2	0.01	1.6
A_55_P2038525	NM_009778	C3	0.97	-1.0	0.69	-1.2	0.04	1.6
A_55_P2078633	NM_009780	C4b	0.82	-1.2	0.76	-1.2	0.04	1.6
A_66_P126640	NM_007592	Car8	0.67	-1.2	0.31	1.4	0.04	1.6
A_55_P2079928	NM_201362	Ccdc68	0.02	1.4	0.07	1.3	0.00	1.6
A_52_P53906	NM_009829	Ccnd2	0.45	1.2	0.06	1.4	0.00	1.6
A_55_P2041075	NM_001081636	Ccnd3	0.41	1.2	0.04	1.3	0.00	1.6
A_52_P422494	NM_145634	Cd300lf	0.58	1.2	0.19	1.4	0.00	1.6
A_55_P2081164	NM_001169153	Cd300lf	0.21	1.3	0.13	1.3	0.00	1.6
A_52_P248604	NM_009868	Cdh5	0.84	1.1	0.59	1.1	0.00	1.6
A_51_P383032	NM_010819	Clec4d	0.93	1.1	0.67	1.2	0.03	1.6
A_51_P357341	NM_033444	Clic1	0.02	1.3	0.00	1.3	0.00	1.6
A_51_P413785	NM_147778	Commd3	0.01	1.4	0.00	1.4	0.00	1.6
A_66_P115531	NM_145151	Crebzf	0.00	1.7	0.05	1.3	0.00	1.6
A_51_P423976	NM_013498	Crem	0.77	1.1	0.03	1.3	0.00	1.6
A_55_P2038106	NM_009978	Cst8	0.96	1.0	0.05	1.5	0.01	1.6
A_55_P1985591	NM_024170	Cxx1a	0.73	1.1	0.33	1.2	0.00	1.6
A_55_P2133266	NM_028375	Cxx1c	0.74	1.1	0.24	1.2	0.00	1.6
A_55_P2124941	NM_019967	Dbc1	0.43	1.2	0.22	1.2	0.00	1.6
A_55_P1968928	NM_027185	Def6	0.02	1.3	0.02	1.3	0.00	1.6
A_52_P578790	NM_013739	Dok3	0.12	1.3	0.00	1.5	0.00	1.6
A_55_P2150496	NM_010063	Dync1i1	0.98	-1.0	0.87	1.1	0.00	1.6
A_52_P583458	NM_010093	E2f3	0.13	1.2	0.02	1.3	0.00	1.6
A_55_P2097022	NM_025613	Eid1	0.89	1.0	0.11	1.3	0.00	1.6
A_55_P2022861	NM_001039176	Elov1	0.75	1.1	0.18	1.3	0.00	1.6
A_55_P1954277	NM_080595	Emid1	0.90	-1.1	0.75	1.1	0.01	1.6
A_51_P507801	NM_028784	F13a1	0.54	1.3	0.46	1.3	0.02	1.6

A_52_P5891	NM_029658	Fam101b	0.78	1.1	0.27	1.3	0.00	1.6
A_55_P2139077	NM_001039485	Fam38b	0.82	-1.1	0.96	-1.0	0.00	1.6
A_55_P2076448	NM_172930	Fam70a	0.90	1.0	0.89	1.0	0.00	1.6
A_51_P154485	NM_145141	Fcrla	0.29	1.4	0.05	1.6	0.03	1.6
A_55_P2064572	NM_172731	Fgd5	0.30	1.3	0.26	1.3	0.00	1.6
A_55_P2100884	NM_010218	Fjx1	0.04	1.4	0.25	1.2	0.00	1.6
A_55_P1981259	NM_153573	Fkbp14	0.71	1.1	0.05	1.3	0.00	1.6
A_55_P2097478	NM_010266	Gda	0.95	-1.0	0.40	1.2	0.00	1.6
A_55_P2115189	XM_001477969	Gm3796	0.11	1.3	0.13	1.2	0.00	1.6
A_51_P171200	NM_027307	Golm1	0.29	1.3	0.50	1.2	0.00	1.6
A_52_P68221	NM_016886	Gria3	0.01	1.4	0.17	1.2	0.00	1.6
A_55_P1970090	NM_010350	Grin2c	0.18	1.6	0.16	1.5	0.04	1.6
A_55_P2099540	NM_177688	H2afj	0.03	1.3	0.02	1.3	0.00	1.6
A_55_P2109128	NM_178194	Hist1h2be	0.97	-1.0	0.46	1.1	0.00	1.6
A_55_P2131438	NM_178212	Hist2h2aa2	0.00	1.4	0.00	1.4	0.00	1.6
A_55_P1982762	NM_133943	Hsd3b7	0.08	1.3	0.00	1.4	0.00	1.6
A_55_P2021114	NM_010500	Ier5	0.19	1.3	0.02	1.5	0.00	1.6
A_51_P125467	NM_010515	Igf2r	0.14	1.2	0.02	1.3	0.00	1.6
A_55_P1964368	NM_001012434	Kctd14	0.36	1.3	0.24	1.3	0.00	1.6
A_51_P361830	NM_144945	Lgi2	0.34	1.3	0.07	1.4	0.00	1.6
A_55_P1978866	XM_001472829	LOC100039402	0.83	-1.1	0.96	-1.0	0.01	1.6
A_55_P2130501	XM_001472813	LOC100044727	0.89	-1.1	0.72	-1.1	0.00	1.6
A_55_P2042016	XM_001479435	LOC100048058	0.98	1.0	0.16	1.2	0.00	1.6
A_55_P1967069	NM_175116	Lpar6	0.73	1.1	0.31	1.2	0.00	1.6
A_51_P487813	NM_016753	Lxn	0.02	1.4	0.01	1.4	0.00	1.6
A_55_P2064771	NM_010741	Ly6c1	0.78	1.1	0.53	1.1	0.00	1.6
A_55_P1961499	NM_010741	Ly6c1	0.88	1.1	0.54	1.1	0.00	1.6
A_55_P2106039	NM_016693	Map3k6	0.70	1.1	0.86	1.1	0.00	1.6
A_55_P1987914	NM_008696	Map4k4	0.01	1.5	0.00	1.5	0.00	1.6
A_52_P168449	NM_011161	Mapk11	0.04	1.3	0.01	1.4	0.00	1.6
A_55_P2078433	NM_026656	Mcoln2	0.23	1.3	0.02	1.5	0.00	1.6
A_55_P1971897	NM_010784	Mdk	0.30	1.3	0.58	1.1	0.00	1.6
A_55_P1975475	NM_010786	Mdm2	0.22	1.2	0.12	1.2	0.00	1.6
A_55_P2151868	NM_008590	Mest	0.42	1.2	0.89	1.1	0.00	1.6
A_55_P1967291	NM_144818	Ncaph	0.00	2.4	0.00	2.2	0.01	1.6
A_51_P405606	NM_008681	Ndrp1	0.11	1.4	0.02	1.5	0.00	1.6
A_51_P223776	NM_145434	Nr1d1	0.02	1.7	0.01	1.7	0.00	1.6
A_55_P2105963	NM_172435	P2ry10	0.54	1.2	0.32	1.3	0.01	1.6
A_55_P1980321	NM_021568	Pcbp3	0.61	1.1	0.19	1.2	0.00	1.6
A_55_P2035159	NM_029357	Pcdh1	0.73	1.1	0.24	1.2	0.00	1.6
A_55_P2087087	NM_001032378	Pecam1	0.41	1.3	0.13	1.3	0.00	1.6
A_51_P363801	NM_023217	Pgpep1	0.40	1.2	0.04	1.3	0.00	1.6
A_52_P513347	NM_199446	Phkb	0.42	1.2	0.10	1.2	0.00	1.6
A_55_P2166773	NM_008850	Pitpna	0.15	1.2	0.03	1.3	0.00	1.6
A_51_P239766	NM_019676	Plcd1	0.12	1.3	0.41	1.2	0.00	1.6
A_55_P2433218	NM_019788	Pldn	0.46	1.2	0.16	1.3	0.00	1.6
A_51_P375201	NM_013807	Plk3	0.02	1.4	0.07	1.3	0.00	1.6
A_51_P302458	NM_023564	Plscr3	0.28	1.1	0.04	1.2	0.00	1.6
A_55_P1954086	NM_015784	Postn	0.04	1.4	0.03	1.4	0.00	1.6

A_55_P2236291	NM_008903	Ppap2a	0.95	-1.0	0.94	-1.0	0.00	1.6
A_55_P2109263	NM_008889	Ppp1r14b	0.16	1.2	0.02	1.3	0.00	1.6
A_51_P279100	NM_008969	Ptgs1	0.92	1.0	0.61	1.1	0.00	1.6
A_55_P2116465	NM_008981	Ptprg	0.25	1.3	0.26	1.2	0.00	1.6
A_55_P2035509	NM_175026	Pyhin1	0.15	1.4	0.16	1.4	0.01	1.6
A_55_P1956567	NM_023852	Rab3c	0.81	-1.1	0.88	1.1	0.00	1.6
A_52_P272119	NM_001081651	Rab42	0.19	1.3	0.12	1.3	0.00	1.6
A_52_P198435	NM_207246	Rasgrp3	0.33	1.2	0.01	1.4	0.00	1.6
A_52_P125467	NM_144865	Reep2	0.32	1.2	0.04	1.3	0.00	1.6
A_55_P2078365	NM_173402	Rgs12	0.73	1.1	0.26	1.2	0.00	1.6
A_52_P89567	NM_007483	Rhob	0.28	1.3	0.15	1.3	0.00	1.6
A_55_P1979684	NM_007484	Rhoc	0.31	1.2	0.17	1.2	0.00	1.6
A_51_P345663	NM_024281	Rrbp1	0.06	1.3	0.00	1.5	0.00	1.6
A_55_P2173982	NM_009104	Rrm2	0.00	3.2	0.00	2.8	0.00	1.6
A_52_P353478	NM_009135	Scn7a	0.87	1.1	0.97	1.0	0.00	1.6
A_51_P436878	NM_018820	Sertad1	0.50	1.2	0.14	1.3	0.00	1.6
A_51_P113403	NM_178743	Slc26a11	0.06	1.3	0.00	1.4	0.00	1.6
A_55_P1953301	NM_146126	Sord	0.53	1.2	0.16	1.3	0.00	1.6
A_55_P2157023	NM_011441	Sox17	1.00	1.0	0.97	1.0	0.04	1.6
A_55_P2094706	NM_011441	Sox17	0.74	1.1	0.90	1.1	0.00	1.6
A_55_P2046812	NM_009242	Sparc	0.94	1.0	1.00	-1.0	0.00	1.6
A_55_P2046807	NM_009242	Sparc	0.95	-1.0	0.71	1.1	0.00	1.6
A_66_P139618	NM_001082545	Stfa2	0.95	1.0	0.48	1.2	0.00	1.6
A_55_P2077188	NM_001113569	Stxbp1	0.56	1.2	0.19	1.2	0.00	1.6
A_55_P2097616	NM_001113569	Stxbp1	0.48	1.2	0.25	1.2	0.00	1.6
A_55_P1985890	NM_178892	Tiparp	0.91	-1.1	0.86	-1.1	0.01	1.6
A_52_P8324	NM_026516	Tmem178	0.61	1.2	0.72	1.1	0.00	1.6
A_55_P1976584	NM_001038710	Tmod2	0.36	1.2	0.06	1.4	0.00	1.6
A_51_P288916	NM_177368	Tmtc2	0.69	1.2	0.75	1.1	0.00	1.6
A_55_P1989296	NM_031176	Tnxb	0.84	1.1	0.94	1.0	0.00	1.6
A_52_P220810	NM_144551	Trib2	0.98	-1.0	0.77	1.1	0.00	1.6
A_51_P341918	NM_009366	Tsc22d1	0.85	1.1	0.23	1.2	0.00	1.6
A_55_P1996573	NM_145607	Ttc13	0.11	1.3	0.16	1.2	0.00	1.6
A_55_P2034864	NM_023716	Tubb2b	0.51	1.2	0.17	1.3	0.00	1.6
A_55_P2124228	NM_028283	Uaca	0.23	1.2	0.01	1.3	0.00	1.6
A_55_P1965827	NM_011664	Ubb	0.11	1.2	0.01	1.3	0.00	1.6
A_51_P433870	NM_009506	Vegfc	0.08	1.5	0.04	1.5	0.01	1.6
A_55_P2012146	BC075649	Veph1	0.22	1.4	0.08	1.4	0.00	1.6
A_55_P2102335	NM_033327	Zfp423	0.54	1.2	0.62	1.1	0.00	1.6
A_30_P01032788			0.03	1.5	0.26	1.2	0.00	1.5
A_51_P483576	AF138742		0.20	1.6	0.00	2.1	0.08	1.5
A_30_P01021307			0.95	1.0	0.96	1.0	0.04	1.5
A_51_P505521	BC019757		0.61	-1.2	0.88	-1.1	0.03	1.5
A_55_P2067362	AK089244		0.74	1.2	0.57	1.2	0.02	1.5
A_30_P01026716			0.58	1.2	0.24	1.3	0.01	1.5
A_30_P01026973			0.61	1.2	0.82	1.1	0.01	1.5
A_66_P136813	AK020048		0.09	1.4	0.78	1.1	0.01	1.5
A_30_P01032267			0.79	1.1	0.86	1.1	0.01	1.5
A_30_P01021251			0.92	1.0	0.66	1.1	0.00	1.5

A_30_P01024850			0.44	1.2	0.06	1.3	0.00	1.5
A_30_P01022991			0.03	1.3	0.00	1.4	0.00	1.5
A_55_P2108693			0.75	1.1	0.25	1.2	0.00	1.5
A_30_P01022914			0.39	1.1	0.44	1.1	0.00	1.5
A_52_P148678	AK169695		0.23	1.2	0.01	1.3	0.00	1.5
A_55_P2161465	AK142593		0.19	1.2	0.06	1.3	0.00	1.5
A_30_P01021453			0.76	1.1	0.52	1.2	0.00	1.5
A_30_P01027037			0.55	1.2	0.25	1.2	0.00	1.5
A_30_P01032293			0.45	1.1	0.18	1.2	0.00	1.5
A_30_P01020914			0.02	1.3	0.00	1.3	0.00	1.5
A_30_P01026510			0.45	1.1	0.39	1.1	0.00	1.5
A_30_P01018970			0.70	1.1	0.31	1.2	0.00	1.5
A_30_P01025417			0.07	1.4	0.08	1.4	0.00	1.5
A_30_P01021640			0.40	1.2	0.11	1.2	0.00	1.5
A_55_P2059765	AK087349		0.21	1.3	0.01	1.4	0.00	1.5
A_30_P01023499			0.02	1.4	0.04	1.4	0.00	1.5
A_30_P01028912			0.78	1.1	0.05	1.3	0.00	1.5
A_30_P01027810			0.91	1.0	0.03	1.3	0.00	1.5
A_55_P2112085	NM_027906	1300010F03Rik	0.79	1.1	0.19	1.2	0.00	1.5
A_55_P2146590	NM_026931	1810011O10Rik	0.94	-1.0	0.85	-1.1	0.00	1.5
A_55_P2383283	AK036632	2310001H17Rik	0.37	1.2	0.00	1.4	0.00	1.5
A_51_P183213	NM_025506	2310007A19Rik	0.09	1.5	0.30	1.3	0.01	1.5
A_51_P511707	NM_025636	2310079N02Rik	0.82	1.1	0.22	1.3	0.00	1.5
A_65_P09285	NM_181075	2610524H06Rik	0.82	1.1	0.08	1.2	0.00	1.5
A_55_P1960049	NM_027419	2810408A11Rik	0.01	1.2	0.07	1.2	0.00	1.5
A_55_P1981664	NM_033144	41160.0	0.02	1.2	0.01	1.3	0.00	1.5
A_51_P276479	NM_178098	4930486L24Rik	0.24	1.3	0.04	1.3	0.00	1.5
A_55_P2098210	NM_172741	4931406P16Rik	0.59	1.1	0.00	1.4	0.00	1.5
A_55_P2349148	AK017909	5830408B19Rik	0.30	1.3	0.26	1.3	0.01	1.5
A_55_P1956457	NM_029998	6030458C11Rik	0.34	1.2	0.11	1.2	0.00	1.5
A_55_P2470474	AK087205	9530082P21Rik	0.63	1.2	0.49	1.2	0.01	1.5
A_55_P2042156	NM_007377	Aatk	0.24	1.3	0.18	1.3	0.00	1.5
A_51_P249118	NM_008830	Abcb4	0.60	1.2	0.15	1.3	0.00	1.5
A_51_P185906	NM_025659	Abi3	0.30	1.3	0.39	1.2	0.01	1.5
A_55_P2077009	NM_207223	Acap3	0.05	1.3	0.15	1.2	0.00	1.5
A_51_P382789	NM_027025	Adora3	0.47	1.2	0.07	1.3	0.00	1.5
A_51_P247249	NM_009662	Alox5	0.84	1.1	0.63	1.2	0.04	1.5
A_55_P1962039	NM_009674	Anxa7	0.24	1.2	0.00	1.3	0.00	1.5
A_51_P399889	NM_026193	Ap4b1	0.02	1.3	0.00	1.4	0.00	1.5
A_55_P2122709	NM_027871	Arhgef3	0.94	1.0	0.21	1.2	0.00	1.5
A_51_P259975	NM_023113	Aspa	0.83	-1.1	0.97	1.0	0.01	1.5
A_55_P2004781	NM_007494	Ass1	0.62	1.1	0.26	1.2	0.00	1.5
A_55_P1987261	NM_172691	B230312A22Rik	0.16	1.2	0.09	1.2	0.00	1.5
A_55_P2110758	NM_177083	B430306N03Rik	0.88	1.1	0.81	1.1	0.02	1.5
A_55_P2170732	NM_178699	B930041F14Rik	0.98	1.0	0.06	1.3	0.00	1.5
A_55_P2157033	NM_019517	Bace2	0.72	1.1	0.36	1.2	0.01	1.5
A_55_P2015984	NM_145511	BC003331	0.02	1.3	0.00	1.4	0.00	1.5
A_55_P2132403	NM_198170	BC059842	0.29	1.2	0.07	1.3	0.00	1.5
A_66_P105175	NM_009738	Bche	0.78	1.1	0.53	1.2	0.03	1.5

A_51_P237668	NM_009749	Bex2	0.87	1.1	0.24	1.3	0.00	1.5
A_55_P2003903	NM_009751	Bfsp1	0.31	1.2	0.19	1.3	0.00	1.5
A_51_P272553	NM_011498	Bhlhe40	0.60	1.2	0.06	1.4	0.00	1.5
A_55_P1983773	NM_001012273	Birc5	0.00	4.0	0.00	3.0	0.02	1.5
A_55_P2355330	NM_145613	C1qtnf5	0.17	1.2	0.32	1.2	0.00	1.5
A_51_P384318	NM_023143	C1ra	0.93	1.1	0.99	1.0	0.01	1.5
A_51_P208931	NM_145974	C330016O10Rik	0.99	-1.0	0.44	1.1	0.00	1.5
A_55_P2020341	NM_178597	Camk2g	0.14	1.2	0.02	1.3	0.00	1.5
A_52_P683441	NM_007602	Capn5	0.87	1.1	0.24	1.3	0.01	1.5
A_55_P2080163	NM_025821	Carhsp1	0.01	1.3	0.00	1.3	0.00	1.5
A_51_P255304	NM_007617	Cav3	0.10	1.4	0.87	1.1	0.01	1.5
A_51_P238448	NM_007632	Ccnd3	0.33	1.2	0.02	1.3	0.00	1.5
A_51_P291501	NM_001081062	Ccno	0.42	1.2	0.37	1.2	0.01	1.5
A_51_P285206	NM_013487	Cd3d	0.73	1.1	0.05	1.4	0.00	1.5
A_51_P342652	NM_008339	Cd79b	0.44	1.3	0.03	1.7	0.08	1.5
A_65_P05252	NM_007658	Cdc25a	0.11	1.3	0.01	1.4	0.00	1.5
A_51_P513224	NM_001081373	Cep164	0.91	1.0	0.54	1.1	0.00	1.5
A_55_P2175190	NM_001129999	Cep250	0.16	1.2	0.01	1.3	0.00	1.5
A_51_P179919	NM_172759	Ces5	0.10	1.3	0.04	1.3	0.00	1.5
A_51_P408363	NM_008823	Cfp	0.50	1.2	0.59	1.1	0.00	1.5
A_65_P15875	NM_133913	Chpf2	0.79	1.1	0.83	1.1	0.00	1.5
A_52_P390944	NM_016803	Chst3	0.04	1.4	0.00	1.6	0.00	1.5
A_51_P515605	NM_009930	Col3a1	0.20	1.4	1.00	-1.0	0.01	1.5
A_51_P124254	NM_009931	Col4a1	0.56	1.2	0.69	1.1	0.00	1.5
A_51_P353592	NM_025417	Commd4	0.07	1.3	0.00	1.4	0.00	1.5
A_52_P366525	NM_001039710	Coq10b	0.92	1.0	0.52	1.2	0.00	1.5
A_55_P2087607	NM_001042611	Cp	0.59	1.1	0.37	1.2	0.00	1.5
A_55_P2021285	NM_146067	Cpped1	0.40	1.1	0.01	1.3	0.00	1.5
A_55_P1971729	NM_007758	Cr2	0.38	1.4	0.03	1.8	0.07	1.5
A_55_P1963150	NM_011804	Creg1	0.76	1.1	0.15	1.4	0.03	1.5
A_52_P460957	NM_013498	Crem	0.68	1.1	0.16	1.2	0.00	1.5
A_55_P2018847	NM_001164735	Crlf2	0.80	1.1	0.82	1.1	0.00	1.5
A_55_P1977473	NM_023118	Dab2	0.88	1.1	0.59	1.1	0.00	1.5
A_51_P422208	NM_007875	Dpagt1	0.13	1.2	0.00	1.3	0.00	1.5
A_55_P1998001	NM_001025384	DXBay18	0.70	1.1	0.05	1.3	0.00	1.5
A_55_P2142439	NM_026728	Echdc2	0.28	1.2	0.16	1.2	0.00	1.5
A_51_P160544	NM_021474	Efemp2	0.48	1.1	0.27	1.1	0.00	1.5
A_51_P360918	NM_020578	Ehd3	0.81	1.1	0.34	1.2	0.00	1.5
A_51_P455807	NM_133838	Ehd4	0.48	1.2	0.01	1.5	0.00	1.5
A_55_P1956488	NM_013514	Epb4.9	0.83	1.1	0.63	1.1	0.00	1.5
A_51_P103594	NM_029894	Fam162b	0.81	1.1	0.62	1.2	0.01	1.5
A_55_P2007389	NM_001014995	Fam189b	0.65	1.1	0.03	1.3	0.00	1.5
A_55_P2150343	NM_001037298	Fam38a	0.18	1.2	0.14	1.2	0.00	1.5
A_55_P2102901	NM_172988	Fbxl4	0.79	1.1	0.05	1.3	0.00	1.5
A_52_P503730	NM_199012	Fchsd2	0.77	1.1	0.49	1.1	0.00	1.5
A_55_P1966209	NM_199448	Fez2	0.69	1.1	0.06	1.2	0.00	1.5
A_65_P06147	NM_008010	Fgfr3	0.23	1.3	0.81	1.1	0.00	1.5
A_52_P222350	NM_134080	Flnb	0.21	1.2	0.18	1.2	0.00	1.5
A_51_P381260	NM_008761	Fxyd5	1.00	-1.0	0.70	1.1	0.00	1.5

A_55_P2024431	NM_008064	Gaa	0.61	1.3	0.26	1.4	0.04	1.5
A_55_P2096867	NM_008083	Gap43	0.72	1.1	0.59	1.2	0.01	1.5
A_55_P2022158	NM_008096	Gc	0.81	-1.1	0.98	-1.0	0.02	1.5
A_52_P116006	NM_010266	Gda	0.60	1.1	0.58	1.1	0.00	1.5
A_55_P2009861	XM_001472138	Gm2015	0.83	-1.1	0.85	-1.1	0.03	1.5
A_55_P2035326	XM_001473557	Gm2433	0.90	1.0	0.14	1.2	0.00	1.5
A_55_P2114318	XM_001478955	Gm4080	0.82	-1.1	0.93	-1.0	0.02	1.5
A_55_P1976744	XM_001478262	Gm4324	0.01	1.6	0.00	1.6	0.01	1.5
A_55_P2133370	XM_001479361	Gm4610	0.32	1.2	0.29	1.2	0.00	1.5
A_55_P2054098	XM_001475988	Gm9495	0.11	1.3	0.18	1.2	0.00	1.5
A_52_P920129	NM_010305	Gnai1	0.94	-1.0	0.85	1.1	0.02	1.5
A_55_P2027392	NM_030258	Gpr146	0.77	1.1	0.32	1.2	0.01	1.5
A_55_P2004761	NM_001033978	H2-Eb2	0.23	1.3	0.01	1.6	0.01	1.5
A_55_P2082929	NM_010389	H2-Ob	0.18	1.5	0.02	1.7	0.01	1.5
A_51_P450021	NM_025933	Higd2a	0.85	1.1	0.19	1.2	0.00	1.5
A_51_P322972	NM_145419	Hkdc1	0.94	-1.1	0.60	1.2	0.03	1.5
A_55_P2112295	NM_010440	Hmg20b	0.06	1.2	0.02	1.3	0.00	1.5
A_55_P2116993	NM_016690	Hnrpd1	0.00	1.5	0.01	1.3	0.00	1.5
A_51_P466613	NM_011984	Homer3	0.04	1.3	0.02	1.3	0.00	1.5
A_52_P624149	NM_011631	Hsp90b1	0.59	1.2	0.04	1.4	0.00	1.5
A_66_P120995	NM_172812	Htr2a	0.51	1.2	0.38	1.2	0.00	1.5
A_55_P2045136	XM_001477102	I830127L07Rik	0.37	1.2	0.47	1.1	0.00	1.5
A_51_P196695	NM_008372	Il7r	0.81	1.1	0.23	1.3	0.00	1.5
A_52_P281145	NM_172872	Kank4	0.00	1.7	0.00	2.0	0.00	1.5
A_55_P2055189	NM_001081134	Kcng1	0.72	1.1	0.97	1.0	0.00	1.5
A_52_P268713	NM_010600	Kcnh1	0.63	1.2	0.21	1.3	0.00	1.5
A_55_P2074499	NM_001029985	Kcp	0.76	1.1	0.36	1.2	0.01	1.5
A_55_P1981949	NM_175174	Klhl5	0.47	1.2	0.04	1.4	0.00	1.5
A_55_P2084965	NM_001039042	Klk13	0.05	1.6	0.53	1.2	0.03	1.5
A_55_P2051834	NM_001033534	Layn	0.45	1.1	0.06	1.2	0.00	1.5
A_52_P569549	NM_176953	Lig4	0.36	1.2	0.03	1.3	0.00	1.5
A_55_P2102419	NM_023684	Lime1	0.00	1.5	0.04	1.3	0.00	1.5
A_55_P1974452	NM_023684	Lime1	0.00	1.6	0.00	1.4	0.00	1.5
A_51_P324651	NM_181039	Lphn1	0.47	1.2	0.35	1.2	0.00	1.5
A_51_P116487	NM_015816	Lsm4	0.92	1.0	0.39	1.2	0.00	1.5
A_55_P1970105	NM_013589	Ltbp2	0.51	1.2	0.13	1.3	0.00	1.5
A_55_P1986306	NM_181470	Ltv1	0.36	1.2	0.00	1.4	0.00	1.5
A_51_P265495	NM_010738	Ly6a	0.47	1.2	0.21	1.2	0.00	1.5
A_51_P521052	NM_029627	Ly6k	0.51	1.3	0.08	1.6	0.04	1.5
A_55_P2102175	NM_025808	Lztr1	0.16	1.2	0.01	1.3	0.00	1.5
A_51_P451458	NM_174857	Mamdc2	0.47	1.2	0.47	1.2	0.01	1.5
A_55_P2142580	AK146784	Mark4	0.88	1.1	0.89	1.0	0.00	1.5
A_66_P107379	NM_010784	Mdk	0.44	1.2	0.82	1.1	0.00	1.5
A_55_P2044439	NM_008595	Mfng	0.47	1.2	0.07	1.3	0.00	1.5
A_51_P253803	NM_001081117	Mki67	0.00	4.1	0.00	3.0	0.01	1.5
A_55_P2073377	NM_001081117	Mki67	0.00	4.1	0.00	3.0	0.01	1.5
A_55_P2046802	NM_029005	Mlkl	0.81	1.1	0.84	1.1	0.00	1.5
A_52_P322421	NM_007962	Mpzl2	0.71	1.2	0.91	1.1	0.02	1.5
A_52_P607128	NM_031195	Msr1	0.79	1.1	0.98	1.0	0.02	1.5

A_55_P2157966	NM_032393	Mtap1a	1.00	1.0	0.93	1.0	0.00	1.5
A_51_P479230	NM_023455	Nat8	0.77	1.1	0.25	1.3	0.01	1.5
A_55_P2165334	NM_023317	Nde1	0.00	1.4	0.00	1.6	0.00	1.5
A_51_P234692	NR_003513	Neat1	0.00	2.0	0.29	1.3	0.01	1.5
A_55_P2157770	NM_001160165	Neu2	0.06	1.4	0.12	1.3	0.00	1.5
A_51_P515965	NM_008685	Nfe2	0.29	1.3	0.27	1.3	0.00	1.5
A_66_P129564	NM_022414	Ngb	0.87	1.1	0.90	1.1	0.01	1.5
A_51_P405227	NM_026012	Nradd	0.30	1.2	0.02	1.3	0.00	1.5
A_51_P504354	NM_025980	Nrarp	0.01	1.6	0.02	1.5	0.01	1.5
A_52_P467726	NM_010942	Nsg1	0.65	1.2	0.04	1.5	0.00	1.5
A_51_P163953	NM_008741	Nsg2	0.28	1.3	0.10	1.3	0.00	1.5
A_51_P191782	NM_133859	Olfml3	0.42	1.2	0.28	1.2	0.00	1.5
A_51_P506733	NM_001038845	P2rx7	0.75	1.1	0.50	1.2	0.00	1.5
A_51_P374900	NM_028808	P2ry13	0.84	1.1	0.62	1.2	0.02	1.5
A_55_P2049752	NM_173749	Pamr1	0.52	1.3	0.62	1.2	0.03	1.5
A_55_P1958517	NM_029922	Parp6	0.00	1.3	0.01	1.3	0.00	1.5
A_52_P278295	NM_028460	Pear1	0.45	1.2	0.11	1.3	0.00	1.5
A_55_P2054409	NM_011089	Pira2	0.82	1.1	0.65	1.2	0.04	1.5
A_51_P232281	NM_011109	Pla2g2d	0.03	1.3	0.00	1.4	0.00	1.5
A_52_P681310	NM_011113	Plaur	0.98	1.0	0.99	1.0	0.00	1.5
A_52_P327588	NM_148937	Plcd4	0.83	1.1	0.20	1.3	0.01	1.5
A_55_P2139027	NM_001163540	Plec1	0.90	1.0	0.93	1.0	0.00	1.5
A_55_P1985219	NM_001122818	Pnpla6	0.22	1.2	0.16	1.2	0.00	1.5
A_51_P169516	NM_001085501	Ppp1r3d	0.29	1.2	0.15	1.2	0.00	1.5
A_52_P487362	NM_028980	Ppp4r4	0.25	1.4	0.57	1.2	0.00	1.5
A_55_P2110567	NM_001045516	Proca1	0.31	1.2	0.04	1.4	0.00	1.5
A_51_P257065	NM_018786	Prpf40b	0.00	1.3	0.00	1.5	0.00	1.5
A_51_P477682	NM_008939	Prss12	0.19	1.4	0.07	1.5	0.02	1.5
A_51_P194609	NM_178372	Prss34	0.72	1.1	0.32	1.3	0.02	1.5
A_51_P233603	NM_011969	Psma7	0.04	1.2	0.00	1.3	0.00	1.5
A_52_P574190	NM_025894	Psmd12	0.28	1.2	0.07	1.3	0.00	1.5
A_55_P2429225	NM_019976	Psrc1	0.02	1.4	0.05	1.3	0.00	1.5
A_51_P311904	NM_172498	Ptk2b	0.31	1.2	0.06	1.3	0.00	1.5
A_55_P2007871	NM_207232	Ptpdc1	0.07	1.2	0.00	1.3	0.00	1.5
A_55_P2006327	NM_008981	Ptprg	0.98	1.0	0.61	1.2	0.00	1.5
A_51_P371091	NM_178593	Rcsd1	0.77	1.1	0.60	1.1	0.00	1.5
A_66_P138289	NM_134006	Rdh5	0.03	1.3	0.05	1.2	0.00	1.5
A_51_P249594	NM_019570	Rev1	0.02	1.3	0.03	1.3	0.00	1.5
A_52_P69194	NM_177572	Rimkla	0.68	1.1	0.49	1.2	0.00	1.5
A_51_P491987	NM_019955	Ripk3	0.02	1.5	0.15	1.3	0.00	1.5
A_51_P244969	NM_025346	Rmnd5b	0.31	1.2	0.11	1.2	0.00	1.5
A_51_P474454	NM_026001	Rnaseh2b	0.00	1.5	0.01	1.5	0.00	1.5
A_55_P2166262	NM_027859	Rnf215	0.90	-1.1	0.26	1.3	0.02	1.5
A_55_P2083919	NM_175549	Robo2	0.82	1.1	0.06	1.3	0.00	1.5
A_55_P2031471	NM_001034060	Rufy4	0.97	1.0	0.93	1.1	0.04	1.5
A_55_P1998471	NM_009114	S100a9	0.75	1.1	0.16	1.3	0.01	1.5
A_55_P1994807	NM_011314	Saa2	0.95	-1.0	0.93	1.0	0.01	1.5
A_55_P2083023	NM_133678	Sac3d1	0.04	1.3	0.02	1.3	0.00	1.5
A_55_P2010152	NM_001164059	Sell	0.87	1.1	0.21	1.3	0.01	1.5

A_52_P410765	NM_011352	Sema7a	0.34	-1.2	0.57	-1.1	0.00	1.5
A_51_P511949	NM_080793	Setd7	0.44	1.2	0.09	1.3	0.00	1.5
A_55_P2157872	NM_001079695	Sfrs5	0.11	1.4	0.02	1.4	0.00	1.5
A_55_P2043554	NM_009195	Slc12a4	0.13	1.2	0.05	1.2	0.00	1.5
A_55_P2115582	NM_015747	Slc20a1	0.04	1.3	0.01	1.3	0.00	1.5
A_55_P2153743	NM_134420	Slc26a6	0.12	1.2	0.10	1.2	0.00	1.5
A_55_P2048119	NM_146257	Slc29a4	0.81	1.1	0.56	1.1	0.00	1.5
A_52_P578768	NM_178746	Slc38a9	0.91	-1.0	0.08	1.3	0.00	1.5
A_51_P196972	NM_011403	Slc4a1	0.35	1.4	0.43	1.3	0.03	1.5
A_51_P230287	NM_030889	Sorcs2	0.45	1.2	0.08	1.3	0.00	1.5
A_55_P1974028	NM_138673	Stab2	0.35	1.3	0.20	1.3	0.00	1.5
A_52_P681488	NM_026343	Stx17	0.22	1.3	0.31	1.2	0.00	1.5
A_55_P1993109	NM_009315	Taf6	0.37	1.2	0.09	1.2	0.00	1.5
A_55_P2059090	NM_145968	Tagap	0.01	1.3	0.02	1.3	0.00	1.5
A_55_P2095360	NM_011576	Tfpi	0.69	1.1	0.69	1.1	0.00	1.5
A_66_P132295	NM_011576	Tfpi	0.75	1.1	0.39	1.2	0.00	1.5
A_51_P427516	NM_019576	Thsd1	0.37	1.2	0.38	1.2	0.00	1.5
A_55_P2308488	NM_009384	Tiam1	0.34	1.2	0.30	1.2	0.00	1.5
A_55_P2081615	NM_001164081	Timeless	0.10	1.2	0.00	1.5	0.00	1.5
A_51_P514961	NM_178892	Tiparp	0.92	-1.1	0.82	-1.1	0.01	1.5
A_51_P401683	NM_145375	Tm6sf1	0.10	1.4	0.04	1.4	0.01	1.5
A_55_P1955078	NM_145580	Tmem149	0.00	1.5	0.01	1.4	0.00	1.5
A_55_P2058348	NM_025864	Tmem206	0.64	1.1	0.31	1.2	0.00	1.5
A_51_P368496	NM_029537	Tmem98	0.90	1.0	0.64	1.1	0.00	1.5
A_55_P1975645	NM_198967	Tmtc1	0.27	1.2	0.15	1.2	0.00	1.5
A_55_P1962937	NM_031254	Trem2	0.99	1.0	0.94	1.0	0.01	1.5
A_52_P457967	NM_172622	Trerf1	0.81	1.1	0.62	1.1	0.00	1.5
A_55_P1962359	NM_053168	Trim11	0.03	1.3	0.39	1.1	0.00	1.5
A_52_P325477	NM_053169	Trim16	0.23	1.3	0.05	1.4	0.00	1.5
A_55_P2110235	NM_133975	Trip12	0.84	1.1	0.00	1.4	0.00	1.5
A_55_P1966644	NM_013838	Trpc6	0.08	1.3	0.18	1.2	0.00	1.5
A_55_P2160686	NM_009366	Tsc22d1	0.55	1.1	0.07	1.2	0.00	1.5
A_52_P144297	NM_198617	Tspyl3	0.65	1.2	0.20	1.3	0.00	1.5
A_55_P2062836	NM_001013026	Ttf2	0.01	1.6	0.00	1.5	0.00	1.5
A_51_P421140	NM_026473	Tubb6	0.00	1.8	0.02	1.5	0.00	1.5
A_52_P123354	NM_019742	Tusc2	0.94	1.0	0.22	1.2	0.00	1.5
A_52_P613596	NM_020505	Vav3	0.31	1.2	0.49	1.1	0.00	1.5
A_51_P392687	NM_011701	Vim	0.42	1.2	0.33	1.2	0.00	1.5
A_55_P1970120	NM_146168	Vopp1	0.30	1.2	0.01	1.3	0.00	1.5
A_51_P194498	NM_023395	Wfdc1	0.59	1.2	0.04	1.5	0.01	1.5
A_51_P316951	NM_001167860	Wipf3	0.15	1.4	0.89	1.1	0.02	1.5
A_55_P1997275	NM_133216	Xpnpep1	0.40	1.2	0.15	1.3	0.00	1.5
A_66_P137152	NM_025970	Zbtb8os	0.34	1.2	0.01	1.4	0.00	1.5
A_65_P19933	AK137472	Zdhhc23	0.16	1.3	0.56	1.1	0.00	1.5
A_51_P353095	NM_177319	Zfyve27	0.35	1.2	0.04	1.3	0.00	1.5
A_55_P2044252	NM_001164597	Znf512b	0.02	1.2	0.01	1.3	0.00	1.5
A_55_P1991440	NM_011757	Zscan21	0.15	1.2	0.00	1.4	0.00	1.5
A_30_P01020135			0.00	1.8	0.43	1.2	0.07	1.4
A_30_P01019123			0.00	1.8	0.00	2.0	0.04	1.4

A_30_P01025798			0.00	1.9	0.62	1.2	0.07	1.4
A_30_P01025102			0.00	2.0	0.01	1.5	0.03	1.4
A_55_P2145224	AF290571		0.19	1.5	0.00	2.0	0.13	1.4
A_55_P2057283	AY170502		0.14	1.6	0.00	2.0	0.11	1.4
A_55_P2340593	AK007545	1810019D21Rik	0.00	1.5	0.04	1.3	0.00	1.4
A_55_P2126448	NR_027821	1810032O08Rik	0.00	1.7	0.02	1.3	0.00	1.4
A_55_P2372228	DT902180	A430104N18Rik	0.02	1.5	0.30	1.2	0.01	1.4
A_51_P330213	NM_024184	Asf1b	0.00	2.0	0.00	1.7	0.03	1.4
A_52_P338956	NM_001081169	Aspg	0.02	1.9	0.42	1.3	0.14	1.4
A_51_P298802	NM_001002896	Bfsp2	0.00	1.5	0.00	1.6	0.01	1.4
A_55_P2004711	NM_177088	Ccdc45	0.00	1.6	0.00	1.4	0.00	1.4
A_51_P164014	NM_173762	Cenpe	0.00	3.2	0.00	2.2	0.03	1.4
A_51_P367310	NM_028083	Chaf1b	0.02	1.5	0.00	1.6	0.01	1.4
A_55_P2085181	NM_028083	Chaf1b	0.00	1.5	0.00	1.6	0.01	1.4
A_55_P1955656	NM_007796	Ctla2a	0.06	1.3	0.00	1.5	0.00	1.4
A_51_P391955	NM_029723	Dapl1	0.04	2.3	0.22	1.7	0.40	1.4
A_55_P2062598	NM_178609	E2f7	0.00	2.0	0.00	1.8	0.01	1.4
A_51_P407879	NM_145382	Fam193b	0.00	1.6	0.02	1.3	0.00	1.4
A_55_P2110245	NM_001163359	Figl1	0.00	1.9	0.00	2.1	0.03	1.4
A_55_P2011937	NM_001163359	Figl1	0.00	2.0	0.00	2.0	0.03	1.4
A_51_P153423	NM_001081416	Fndc1	0.39	-1.3	0.00	-1.7	0.02	1.4
A_51_P462102	NM_133911	Gpr125	0.15	1.3	0.00	1.6	0.01	1.4
A_51_P388819	NM_174998	Hpcal4	0.37	1.3	0.00	1.7	0.02	1.4
A_55_P2125786	NM_028175	Lrrc8e	0.23	1.3	0.01	1.5	0.01	1.4
A_51_P158210	NM_008564	Mcm2	0.02	1.5	0.00	1.9	0.01	1.4
A_51_P324934	AK088142	Mcm3	0.00	1.6	0.00	1.6	0.01	1.4
A_51_P165704	NM_008568	Mcm7	0.00	1.8	0.00	1.7	0.02	1.4
A_55_P2076866	NM_001162977	Megf6	0.02	1.5	0.00	1.6	0.01	1.4
A_51_P247184	NM_008728	Npr3	0.20	1.4	0.00	1.9	0.04	1.4
A_55_P2105002	NM_011045	Pcna	0.00	1.5	0.00	1.6	0.00	1.4
A_55_P2053958	NM_030566	Rabep2	0.00	1.5	0.01	1.4	0.00	1.4
A_51_P148105	NM_011234	Rad51	0.00	1.8	0.00	1.9	0.01	1.4
A_55_P1991688	NM_009013	Rad51ap1	0.03	1.4	0.00	1.6	0.01	1.4
A_55_P2032232	NM_011268	Rgs9	0.00	1.5	0.00	1.5	0.00	1.4
A_55_P2137431	NM_001001882	Rtel1	0.00	1.5	0.01	1.3	0.00	1.4
A_52_P38964	NM_001081962	Sap25	0.01	1.5	0.41	1.2	0.00	1.4
A_51_P112627	NM_009180	St6galnac2	0.13	1.3	0.02	1.5	0.00	1.4
A_51_P295420	NM_145931	Zc3h7a	0.01	1.5	0.00	1.4	0.00	1.4
A_30_P01028297			0.00	1.5	0.11	1.2	0.03	1.3
A_30_P01030198			0.01	1.6	0.22	1.3	0.11	1.3
A_30_P01028362			0.00	1.6	0.24	1.2	0.05	1.3
A_30_P01029720			0.01	1.7	0.70	1.1	0.26	1.3
A_30_P01023251			0.00	1.8	0.40	1.2	0.08	1.3
A_51_P488554	NM_026543	3010026O09Rik	0.02	1.4	0.00	1.5	0.02	1.3
A_55_P2063336	NM_134041	4930427A07Rik	0.00	1.7	0.00	1.7	0.07	1.3
A_55_P2293351	AK082896	C430010C01	0.00	1.7	0.12	1.2	0.02	1.3
A_51_P481920	NM_009828	Ccna2	0.00	3.5	0.00	2.7	0.05	1.3
A_51_P196973	NM_013733	Chaf1a	0.34	1.3	0.01	1.5	0.05	1.3
A_52_P162099	NM_001004140	Ckap2	0.00	3.3	0.00	2.6	0.10	1.3

A_51_P227004	NM_016904	Cks1b	0.00	1.8	0.00	1.5	0.08	1.3
A_55_P2033110	NM_009639	Crisp3	0.01	2.6	0.22	1.7	0.49	1.3
A_51_P252859	NM_010516	Cyr61	0.16	1.4	0.01	1.6	0.14	1.3
A_55_P2135551	NM_025718	Dnase1l2	0.01	2.0	0.52	1.2	0.29	1.3
A_55_P2164534	NM_029766	Dtl	0.00	1.6	0.00	1.7	0.03	1.3
A_51_P239984	NM_012012	Exo1	0.00	1.4	0.00	1.5	0.00	1.3
A_66_P130916	NM_010389	H2-Ob	0.21	1.4	0.04	1.5	0.16	1.3
A_51_P133137	NM_009004	Kif20a	0.00	2.6	0.00	2.2	0.06	1.3
A_55_P2109717	NM_183046	Kif20b	0.00	2.1	0.00	1.9	0.07	1.3
A_55_P2056654	NM_145588	Kif22	0.00	2.3	0.00	2.0	0.02	1.3
A_51_P130079	NM_008511	Lrmp	0.15	1.3	0.01	1.5	0.01	1.3
A_55_P1955015	NM_178440	Myo1g	0.03	1.4	0.01	1.5	0.02	1.3
A_51_P379478	NM_172484	Nckap5	0.03	1.5	0.01	1.5	0.10	1.3
A_51_P223709	NM_080850	Pask	0.02	1.4	0.00	1.5	0.05	1.3
A_51_P204442	NM_028716	Phf19	0.01	1.6	0.04	1.4	0.18	1.3
A_51_P168632	NM_008921	Prim1	0.01	1.6	0.00	1.5	0.07	1.3
A_55_P1969032	NM_011268	Rgs9	0.01	1.5	0.00	1.6	0.01	1.3
A_55_P1983450	NM_011311	S100a4	0.02	1.5	0.00	1.6	0.08	1.3
A_55_P2004801	NM_001040435	Tacc3	0.00	2.1	0.00	1.6	0.06	1.3
A_55_P2152035	NM_001163763	Tcf19	0.00	1.9	0.00	1.8	0.05	1.3
A_51_P302651	NM_176979	Topbp1	0.00	1.5	0.01	1.4	0.01	1.3
A_51_P431996	NM_175494	Zfp367	0.01	1.6	0.00	1.7	0.10	1.3
A_30_P01023567			0.00	1.5	0.34	1.2	0.07	1.2
A_30_P01032180			0.00	1.5	0.34	1.1	0.08	1.2
A_52_P1016836	AV256778		0.00	1.6	0.16	1.3	0.19	1.2
A_55_P1968664			0.00	1.6	0.00	1.4	0.09	1.2
A_55_P1973560			0.00	2.0	0.00	1.5	0.43	1.2
A_30_P01028054			0.92	1.1	0.03	1.5	0.29	1.2
A_30_P01026232			0.84	1.1	0.01	1.5	0.20	1.2
A_51_P295896	NM_028934	4930452B06Rik	0.36	1.2	0.00	1.5	0.05	1.2
A_55_P2435504	NM_176976	5830418K08Rik	0.00	1.5	0.01	1.3	0.01	1.2
A_51_P386304	NM_207678	Ccnl2	0.00	1.5	0.22	1.2	0.09	1.2
A_55_P1996946	NM_023223	Cdc20	0.00	2.1	0.01	1.6	0.44	1.2
A_52_P628067	NM_013538	Cdca3	0.00	1.9	0.01	1.6	0.47	1.2
A_51_P155142	NM_026560	Cdca8	0.00	2.0	0.00	1.6	0.12	1.2
A_51_P133612	NM_026014	Cdt1	0.01	1.6	0.01	1.5	0.23	1.2
A_55_P2106150	NM_021790	Cenpk	0.00	1.6	0.00	1.6	0.18	1.2
A_55_P2077263	NM_021790	Cenpk	0.00	1.6	0.00	1.7	0.09	1.2
A_52_P104824	NM_019670	Diap3	0.02	1.3	0.00	1.5	0.15	1.2
A_66_P137605	NM_173386	E330016A19Rik	0.00	1.7	0.00	1.5	0.15	1.2
A_51_P394802	NM_026640	Fam111a	0.00	1.4	0.00	1.5	0.02	1.2
A_55_P2178378	NR_002840	Gas5	0.02	1.5	0.39	1.2	0.20	1.2
A_55_P2109505	XM_890094	Gm6594	0.02	1.5	0.25	1.2	0.41	1.2
A_55_P2162136	NM_016957	Hmgn2	0.01	1.5	0.04	1.3	0.28	1.2
A_55_P2028496	XM_001472085	Hmgn2l6	0.00	1.6	0.05	1.4	0.18	1.2
A_55_P1978201	NM_016692	Incenp	0.00	1.8	0.00	1.5	0.18	1.2
A_51_P356762	NM_008565	Mcm4	0.01	1.5	0.00	1.5	0.07	1.2
A_51_P190111	NM_008566	Mcm5	0.01	1.5	0.03	1.4	0.31	1.2
A_51_P202074	NM_146171	Ncapd2	0.00	1.8	0.03	1.4	0.32	1.2

A_55_P1997906	NM_172203	Nox1	0.14	1.4	0.00	1.6	0.33	1.2
A_51_P344566	NM_011121	Plk1	0.00	1.5	0.00	1.4	0.06	1.2
A_55_P2007273	NM_011132	Pole	0.02	1.6	0.02	1.5	0.25	1.2
A_55_P2037712	NM_133786	Smc4	0.00	1.6	0.00	1.5	0.08	1.2
A_55_P1995205	NM_011623	Top2a	0.00	1.9	0.00	1.7	0.43	1.2
A_51_P369200	NM_028109	Tpx2	0.00	1.9	0.00	1.8	0.37	1.2
A_30_P01028956			0.00	1.5	0.01	1.4	0.44	1.1
A_30_P01017632			0.00	1.6	0.00	1.5	0.38	1.1
A_30_P01028287			0.00	1.7	0.08	1.3	0.78	1.1
A_30_P01023554			0.00	1.8	0.00	1.5	0.48	1.1
A_55_P2063146			0.00	2.1	0.00	1.7	0.81	1.1
A_55_P2056493			0.02	1.4	0.01	1.5	0.52	1.1
A_52_P354373	XM_001481164	1190002F15Rik	0.00	2.3	0.00	1.8	0.86	1.1
A_55_P2148171	NM_145555	A330049M08Rik	0.00	1.6	0.30	1.2	0.72	1.1
A_55_P1988228	NM_009791	Aspm	0.00	2.1	0.00	1.7	0.67	1.1
A_55_P2186648	NM_007525	Bard1	0.01	1.5	0.04	1.3	0.64	1.1
A_55_P1983768	NM_009689	Birc5	0.00	1.8	0.00	1.7	0.82	1.1
A_51_P457528	NM_007630	Ccnb2	0.00	2.1	0.00	1.7	0.41	1.1
A_55_P2039324	NM_007634	Ccnf	0.00	1.8	0.00	1.4	0.69	1.1
A_51_P125135	NM_026410	Cdca5	0.00	1.9	0.00	1.7	0.63	1.1
A_55_P2061495	NM_016904	Cks1b	0.00	1.6	0.00	1.4	0.30	1.1
A_55_P2115442	NM_053109	Clec2d	0.00	2.0	0.02	1.5	0.73	1.1
A_55_P1976127	NM_007900	Ect2	0.00	1.9	0.01	1.5	0.68	1.1
A_55_P2018904	NM_001034882	Gm5465	0.02	1.5	0.10	1.3	0.66	1.1
A_55_P2103706	XM_485921	Gm5593	0.00	2.0	0.04	1.5	0.70	1.1
A_52_P498208	NM_178183	Hist1h2ak	0.02	1.5	0.03	1.5	0.74	1.1
A_55_P2084631	NM_178184	Hist1h2an	0.01	1.6	0.07	1.3	0.73	1.1
A_55_P1993789	NM_016957	Hmgn2	0.02	1.8	0.27	1.3	0.78	1.1
A_55_P2028054	NM_016692	Incenp	0.00	1.7	0.00	1.4	0.44	1.1
A_52_P588881	NM_001033484	Iqgap3	0.00	2.0	0.00	1.6	0.76	1.1
A_55_P2062543	NM_053173	Kifc1	0.00	1.8	0.00	1.5	0.46	1.1
A_51_P408071	NM_001042421	Kntc1	0.01	1.6	0.00	1.5	0.62	1.1
A_55_P2052834	NM_010734	Lst1	0.16	1.4	0.04	1.5	0.69	1.1
A_55_P2133255	NM_019499	Mad2l1	0.00	1.7	0.01	1.5	0.62	1.1
A_66_P104309	NM_010861	Myl2	0.00	1.7	0.32	1.2	0.61	1.1
A_55_P2154228	NM_178113	Ncapd3	0.00	1.6	0.00	1.4	0.73	1.1
A_52_P529570	NM_198654	Nsl1	0.00	1.4	0.00	1.5	0.42	1.1
A_51_P240453	NM_133851	Nusap1	0.00	2.5	0.00	2.1	0.62	1.1
A_51_P230098	NM_023209	Pbk	0.00	2.5	0.00	2.2	0.57	1.1
A_55_P1988083	NM_145150	Prc1	0.00	2.4	0.00	1.8	0.57	1.1
A_52_P72587	NM_008859	Prkcq	0.00	1.5	0.06	1.3	0.54	1.1
A_51_P234253	NM_145535	Sdcbp2	0.03	1.5	0.58	1.2	0.83	1.1
A_51_P204402	NM_011369	Shcbp1	0.00	2.2	0.00	1.8	0.64	1.1
A_55_P2172274	NM_008017	Smc2	0.00	1.7	0.00	1.5	0.49	1.1
A_55_P2056496	NM_009387	Tk1	0.00	1.5	0.00	1.4	0.56	1.1
A_55_P1976574	NM_016712	Tmod4	0.01	1.6	0.52	1.2	0.46	1.1
A_52_P151320	NM_025566	Tnfaip8l1	0.00	1.7	0.00	1.5	0.37	1.1
A_55_P2030938	NM_025863	Trim59	0.00	2.0	0.00	1.8	0.80	1.1
A_55_P1996941	NM_026785	Ube2c	0.00	1.9	0.01	1.4	0.81	1.1

A_51_P451151	NM_026785	Ube2c	0.00	2.3	0.00	1.8	0.51	1.1
A_30_P01030419			0.00	1.5	0.16	1.2	0.82	1.0
A_30_P01032204			0.16	-1.4	0.03	-1.5	0.96	1.0
A_66_P134542	NM_028390	Anln	0.00	2.1	0.00	1.5	0.98	1.0
A_51_P209327	NM_013912	Apln	0.23	-1.5	0.02	-1.7	0.95	1.0
A_55_P1980636	NM_011497	Aurka	0.00	1.9	0.00	1.5	0.95	1.0
A_55_P2074796	NM_007671	Cdkn2c	0.03	1.5	0.15	1.3	0.86	1.0
A_52_P30989	NM_028222	Cdkn3	0.00	1.9	0.00	1.6	0.90	1.0
A_55_P2158011	NM_026412	D2Ertd750e	0.00	1.8	0.01	1.4	0.91	1.0
A_51_P303749	NM_178683	Depdc1b	0.00	1.6	0.00	1.5	0.89	1.0
A_51_P324287	NM_024245	Kif23	0.00	1.6	0.00	1.3	0.95	1.0
A_51_P373393	NM_033175	Lce3c	0.03	3.2	0.87	1.2	0.97	1.0
A_55_P2013336	NM_010790	Melk	0.00	1.9	0.00	1.5	0.94	1.0
A_52_P190647	NM_016662	Mxd3	0.01	1.6	0.00	1.6	0.93	1.0
A_51_P424810	NM_133762	Ncapg2	0.00	1.6	0.01	1.5	0.99	1.0
A_52_P139650	NM_025581	Ska1	0.00	1.8	0.00	1.7	0.91	1.0
A_51_P513530	NM_017407	Spag5	0.00	1.5	0.08	1.3	0.91	1.0
A_51_P105709	NM_027182	Trip13	0.00	1.5	0.02	1.4	0.83	1.0
A_30_P01018593			0.00	1.6	0.02	1.4	0.93	-1.0
A_30_P01020075			0.00	1.9	0.00	1.5	0.87	-1.0
A_30_P01033296			0.11	-1.5	0.03	-1.6	0.92	-1.0
A_51_P472217	NM_001081085	2010317E24Rik	0.03	1.5	0.45	1.2	0.87	-1.0
A_51_P311038	NM_001024139	Adamts15	0.02	-1.5	0.04	-1.4	0.85	-1.0
A_55_P2065671	NM_172301	Ccnb1	0.01	1.6	0.07	1.4	0.89	-1.0
A_51_P228171	NM_025495	Cenpp	0.02	1.5	0.02	1.4	0.85	-1.0
A_55_P2000833	NM_001013368	E2f8	0.00	1.6	0.01	1.5	0.99	-1.0
A_51_P455897	NM_144526	Fam64a	0.00	3.0	0.00	2.2	0.97	-1.0
A_51_P393958	NM_025995	Fbxo5	0.00	2.0	0.00	1.8	0.98	-1.0
A_55_P2011436	XM_001474074	Gm11223	0.02	1.5	0.01	1.5	0.96	-1.0
A_55_P2112355	XM_980525	Gm7125	0.03	1.6	0.60	1.2	0.91	-1.0
A_51_P151586	NM_010353	Gsg2	0.00	1.8	0.04	1.3	0.85	-1.0
A_55_P2076048	NM_023284	Nuf2	0.00	1.7	0.01	1.5	0.89	-1.0
A_55_P2127702	NM_012025	Racgap1	0.00	1.7	0.02	1.4	0.84	-1.0
A_51_P487999	NM_028232	Sgol1	0.00	2.4	0.00	1.8	0.97	-1.0
A_55_P2043862	NM_019641	Stmn1	0.00	1.5	0.00	1.4	0.97	-1.0
A_55_P2187034			0.01	1.5	0.04	1.4	0.70	-1.1
A_30_P01028673			0.00	1.6	0.02	1.4	0.79	-1.1
A_30_P01032715			0.08	-1.5	0.02	-1.5	0.83	-1.1
A_52_P56397	NM_001081099	2610002D18Rik	0.01	1.5	0.01	1.4	0.82	-1.1
A_51_P430423	NM_007398	Ada	0.01	4.2	0.77	1.3	0.94	-1.1
A_52_P627269	NM_198171	BC015286	0.01	2.0	0.00	2.0	0.81	-1.1
A_55_P2048588	NM_007659	Cdk1	0.00	1.5	0.15	1.2	0.29	-1.1
A_52_P399584	NM_181589	Ckap2l	0.01	1.6	0.06	1.3	0.77	-1.1
A_55_P2131766	NM_023665	D4Wsu53e	0.00	2.6	0.56	1.3	0.93	-1.1
A_55_P1974347	NM_172513	Fam126b	0.02	-1.5	0.25	-1.2	0.73	-1.1
A_55_P2067342	XM_001478579	Gm9782	0.03	3.3	0.93	1.1	0.89	-1.1
A_66_P101930	NM_025501	Lce3b	0.02	3.3	0.93	1.1	0.88	-1.1
A_51_P120717	NM_010721	Lmnbl	0.04	1.6	0.43	1.2	0.77	-1.1
A_51_P466229	NM_026840	Pdgfrl	0.07	-1.4	0.02	-1.5	0.82	-1.1

A_51_P419226	NM_025393	S100a14	0.02	1.9	0.44	1.3	0.87	-1.1
A_55_P2003746	NM_009126	Serpinb3a	0.04	3.7	0.93	1.1	0.95	-1.1
A_55_P2068663	NM_019641	Stmn1	0.04	1.5	0.06	1.4	0.59	-1.1
A_55_P2000454	XM_001478824	Tspan18	0.15	-1.3	0.02	-1.5	0.67	-1.1
A_30_P01020936			0.03	-2.0	0.20	-1.5	0.55	-1.2
A_30_P01022742			0.40	-1.3	0.04	-1.5	0.27	-1.2
A_55_P1978316	NM_001081127	Adamts14	0.25	-1.3	0.01	-1.5	0.16	-1.2
A_66_P121459	NM_007681	Cenpa	0.00	1.5	0.02	1.3	0.20	-1.2
A_55_P1969131	NM_178373	Cidec	0.22	-1.5	0.03	-1.7	0.55	-1.2
A_55_P1994939	NM_008252	Hmgb2	0.01	1.5	0.19	1.2	0.16	-1.2
A_55_P2152472	NM_001039594	Lce3a	0.04	3.8	1.00	1.0	0.84	-1.2
A_55_P1961715	NM_080637	Nme5	0.02	-1.9	0.19	-1.5	0.49	-1.2
A_51_P350453	NM_013743	Pdk4	0.31	-1.4	0.02	-1.7	0.54	-1.2
A_51_P244497	NM_175640	Plin1	0.36	-1.7	0.03	-2.2	0.75	-1.2
A_30_P01020926			0.02	-1.6	0.05	-1.4	0.05	-1.3
A_30_P01019384			0.01	-1.5	0.00	-1.5	0.06	-1.3
A_30_P01027083			0.00	-1.5	0.00	-1.5	0.00	-1.3
A_55_P2022870	XM_888730		0.00	-1.5	0.00	-1.5	0.02	-1.3
A_55_P2130408	XM_001478191		0.23	-1.3	0.01	-1.5	0.02	-1.3
A_30_P01033196			0.01	-1.3	0.00	-1.5	0.00	-1.3
A_55_P2178137	NM_011889	41155.0	0.02	-1.5	0.00	-1.5	0.04	-1.3
A_55_P2061620	NM_023850	Chst1	0.45	-1.3	0.01	-1.7	0.22	-1.3
A_55_P2444965	NM_175518	D730040F13Rik	0.00	-2.1	0.23	-1.4	0.35	-1.3
A_51_P270949	NM_020034	Hist1h1b	0.01	1.7	0.42	1.2	0.16	-1.3
A_55_P2244142	BC030682	Klf13	0.25	-1.3	0.03	-1.5	0.07	-1.3
A_55_P1974984	XM_001474652	LOC100045638	0.19	-1.5	0.03	-1.6	0.25	-1.3
A_55_P2098603	XM_001480211	LOC100048353	0.01	-1.5	0.13	-1.3	0.11	-1.3
A_55_P2105542	NM_001143848	Pde2a	0.23	-1.3	0.02	-1.5	0.06	-1.3
A_51_P224311	NM_022318	Popdc2	0.49	-1.2	0.00	-1.5	0.03	-1.3
A_51_P438619	NM_175407	Sobp	0.09	-1.3	0.01	-1.5	0.01	-1.3
A_52_P237232	NM_009379	Thpo	0.99	1.0	0.03	-4.0	0.75	-1.3
A_30_P01023279			0.04	-1.5	0.00	-1.7	0.01	-1.4
A_30_P01019783			0.85	-1.1	0.04	-1.5	0.07	-1.4
A_30_P01025814			0.05	-1.3	0.00	-1.5	0.00	-1.4
A_51_P136870	AK030022		0.04	-1.3	0.00	-1.5	0.00	-1.4
A_51_P102257	AK053112		0.09	-1.4	0.00	-1.6	0.01	-1.4
A_30_P01032839			0.97	1.1	0.01	-4.6	0.71	-1.4
A_55_P2318934	AK004627	1200007C13Rik	0.32	-1.3	0.02	-1.5	0.04	-1.4
A_55_P2273929	AK076353	4732457N14	0.46	-1.2	0.03	-1.5	0.02	-1.4
A_55_P2125261	NR_028111	4930523C07Rik	0.19	-1.4	0.04	-1.5	0.03	-1.4
A_55_P2262753	AK035477	9530053J19Rik	0.01	-1.5	0.00	-1.4	0.00	-1.4
A_55_P1953400	NM_021477	A2bp1	0.45	-1.2	0.03	-1.5	0.03	-1.4
A_51_P115715	NM_023049	Asb2	0.23	-1.2	0.00	-1.5	0.00	-1.4
A_55_P2042500	NM_145635	BC054059	0.70	-1.3	0.02	-2.2	0.27	-1.4
A_55_P2413722	AK048632	C130090I23Rik	0.00	-1.5	0.01	-1.4	0.00	-1.4
A_51_P509573	NM_013652	Ccl4	0.08	-1.5	0.01	-1.6	0.03	-1.4
A_51_P493016	NM_023821	Cmya5	0.67	-1.3	0.04	-1.9	0.19	-1.4
A_55_P2028576	XM_001478577	Gm7057	0.21	-1.3	0.02	-1.5	0.00	-1.4
A_52_P16419	NM_010271	Gpd1	0.41	-1.3	0.01	-1.5	0.03	-1.4

A_55_P1963533	NM_001003672	Pcdhac2	0.12	-1.5	0.01	-1.7	0.05	-1.4
A_55_P2021011	NM_030207	Sfi1	0.02	-1.6	0.00	-1.6	0.04	-1.4
A_55_P2159234	NM_001033463	Tatdn2	0.06	-1.4	0.01	-1.6	0.03	-1.4
A_55_P2138960	NM_013861	Tpk1	0.04	-1.3	0.00	-1.5	0.00	-1.4
A_55_P2001583	NM_183180	Tspan18	0.46	-1.2	0.00	-1.6	0.01	-1.4
A_51_P426353	NM_009463	Ucp1	0.23	-1.7	0.02	-2.2	0.37	-1.4
A_30_P01019695			0.01	-2.2	0.07	-1.7	0.12	-1.5
A_55_P1956762	AK082974		0.04	-1.5	0.15	-1.3	0.01	-1.5
A_55_P2066453	AK081831		0.07	-1.4	0.02	-1.5	0.00	-1.5
A_30_P01025436			0.53	-1.2	0.06	-1.5	0.02	-1.5
A_30_P01022987			0.46	-1.2	0.45	-1.2	0.01	-1.5
A_55_P2187225	BQ885887		0.54	-1.2	0.09	-1.4	0.01	-1.5
A_51_P321600	AK224942		0.19	-1.4	0.14	-1.4	0.01	-1.5
A_30_P01022868			0.40	-1.3	0.07	-1.5	0.01	-1.5
A_55_P1955733	XM_001477303		0.44	-1.2	0.10	-1.3	0.00	-1.5
A_55_P2013780			0.54	-1.2	0.22	-1.2	0.00	-1.5
A_55_P1998721	AK137722		0.64	-1.1	0.34	-1.2	0.00	-1.5
A_30_P01022343			0.69	-1.1	0.26	-1.2	0.00	-1.5
A_30_P01029072			0.24	-1.2	0.03	-1.3	0.00	-1.5
A_66_P117815			0.88	-1.1	0.23	-1.2	0.00	-1.5
A_30_P01020487			0.05	-1.3	0.02	-1.4	0.00	-1.5
A_30_P01028277			0.61	-1.2	0.14	-1.3	0.00	-1.5
A_55_P2124110	AK004107		0.79	-1.1	0.39	-1.2	0.00	-1.5
A_30_P01021877			0.54	-1.2	0.12	-1.3	0.00	-1.5
A_30_P01018499			0.05	-1.3	0.00	-1.4	0.00	-1.5
A_30_P01021825			0.01	-1.3	0.00	-1.4	0.00	-1.5
A_55_P2069787			0.86	-1.1	0.63	-1.1	0.00	-1.5
A_30_P01032068			0.04	-1.4	0.03	-1.4	0.00	-1.5
A_30_P01019885			0.49	-1.2	0.01	-1.4	0.00	-1.5
A_30_P01029934			0.10	-1.3	0.03	-1.4	0.00	-1.5
A_30_P01028808			0.16	-1.3	0.01	-1.4	0.00	-1.5
A_30_P01025536			0.42	-1.2	0.07	-1.4	0.00	-1.5
A_30_P01030141			0.18	-1.2	0.03	-1.3	0.00	-1.5
A_30_P01032631			0.01	-1.4	0.03	-1.3	0.00	-1.5
A_30_P01024722			0.09	-1.3	0.11	-1.3	0.00	-1.5
A_55_P1991239	AK051413		0.28	-1.3	0.10	-1.4	0.00	-1.5
A_30_P01028474			0.03	-1.3	0.02	-1.3	0.00	-1.5
A_55_P2060793			0.82	-1.1	0.57	-1.1	0.00	-1.5
A_52_P37702	AK011813		0.10	-1.4	0.06	-1.4	0.00	-1.5
A_30_P01018341			0.76	-1.1	0.12	-1.3	0.00	-1.5
A_30_P01028737			0.36	-1.2	0.02	-1.4	0.00	-1.5
A_52_P163515			0.27	-1.2	0.07	-1.3	0.00	-1.5
A_30_P01021078			0.23	-1.3	0.11	-1.3	0.00	-1.5
A_30_P01033630			0.09	-1.3	0.02	-1.3	0.00	-1.5
A_30_P01033625			0.62	-1.2	0.08	-1.4	0.00	-1.5
A_55_P2072315	AK133410		0.72	-1.1	0.17	-1.3	0.00	-1.5
A_55_P2169135			0.58	-1.2	0.30	-1.2	0.00	-1.5
A_30_P01022751			0.61	-1.2	0.18	-1.3	0.00	-1.5
A_55_P1958137	XM_001479647		0.11	-1.3	0.07	-1.3	0.00	-1.5

A_30_P01028020			0.11	-1.3	0.04	-1.4	0.00	-1.5
A_55_P2072940	AK138152		0.22	-1.2	0.00	-1.4	0.00	-1.5
A_30_P01025096			0.56	-1.2	0.09	-1.3	0.00	-1.5
A_55_P2131672	AK163078		0.34	-1.2	0.04	-1.3	0.00	-1.5
A_30_P01017480			0.22	-1.3	0.02	-1.4	0.00	-1.5
A_30_P01025354			0.68	-1.1	0.21	-1.2	0.00	-1.5
A_30_P01028970			0.06	-1.3	0.01	-1.3	0.00	-1.5
A_55_P1982744			0.83	-1.1	0.26	-1.2	0.00	-1.5
A_55_P2083426			0.83	-1.1	0.62	-1.1	0.00	-1.5
A_30_P01027839			0.08	-1.3	0.10	-1.3	0.00	-1.5
A_55_P2090205	U04541		0.19	-1.4	0.41	-1.2	0.00	-1.5
A_55_P2004119			0.80	-1.1	0.55	-1.2	0.00	-1.5
A_30_P01032449			0.11	-1.3	0.07	-1.3	0.00	-1.5
A_55_P2148708			0.16	-1.3	0.04	-1.3	0.00	-1.5
A_55_P2126945	NM_001033168	1700066B19Rik	0.30	-1.2	0.03	-1.4	0.00	-1.5
A_55_P2060445	NM_026511	2810002N01Rik	0.22	-1.4	0.04	-1.5	0.02	-1.5
A_55_P1953157	NM_027279	2810422O20Rik	0.87	-1.1	0.14	-1.4	0.02	-1.5
A_55_P2305339	AK141715	6720427H10Rik	0.86	-1.0	0.06	-1.2	0.00	-1.5
A_55_P2065829	NM_199017	9230110C19Rik	0.15	-1.3	0.02	-1.4	0.00	-1.5
A_55_P1974522	NM_175688	A530099J19Rik	0.01	-1.6	0.03	-1.5	0.01	-1.5
A_55_P2238079	AK031253	A830054O07Rik	0.30	-1.2	0.01	-1.5	0.00	-1.5
A_55_P1996504	NM_011920	Abcg2	0.91	-1.0	0.31	-1.2	0.00	-1.5
A_55_P2039586	NM_001035531	Adrbk2	0.01	-1.3	0.00	-1.6	0.00	-1.5
A_52_P162509	NM_021414	Ahcyl2	0.10	-1.3	0.05	-1.3	0.00	-1.5
A_55_P2375121	AK045926	Al225934	0.55	-1.2	0.29	-1.2	0.00	-1.5
A_55_P2266178	BC028446	Al790276	0.13	-1.5	0.02	-1.7	0.02	-1.5
A_55_P2174743	NM_018747	Akap7	0.26	-1.3	0.06	-1.4	0.00	-1.5
A_55_P2016681	NM_025538	Alkbh7	0.11	-1.3	0.02	-1.3	0.00	-1.5
A_55_P2103501	XM_001474217	Ankrd29	0.16	-1.3	0.02	-1.5	0.00	-1.5
A_55_P2112360	NM_144529	Arhgap17	0.02	-1.2	0.00	-1.4	0.00	-1.5
A_55_P2108784	NM_153800	Arhgap22	0.77	-1.1	0.28	-1.2	0.00	-1.5
A_55_P2035087	NM_177566	Arhgef15	0.01	-1.3	0.00	-1.3	0.00	-1.5
A_52_P549166	NM_173451	Arsj	0.93	-1.0	0.93	-1.0	0.02	-1.5
A_51_P155763	NM_001146089	Ascc3	0.20	-1.3	0.11	-1.3	0.00	-1.5
A_55_P2003823	NM_009714	Asgr1	0.92	-1.1	0.12	-1.4	0.02	-1.5
A_52_P97670	NM_001099628	Atad2b	0.05	-1.4	0.06	-1.3	0.00	-1.5
A_51_P275496	XM_001480912	BC026762	0.70	-1.1	0.31	-1.2	0.00	-1.5
A_52_P413646	NM_007556	Bmp6	0.49	-1.1	0.56	-1.1	0.00	-1.5
A_55_P1985259	NM_001017985	C2cd3	0.96	-1.0	0.48	-1.2	0.00	-1.5
A_52_P416327	NM_178687	Cd226	0.81	-1.1	0.51	-1.2	0.01	-1.5
A_52_P657240	NM_027879	Cdc40	0.64	-1.1	0.22	-1.2	0.00	-1.5
A_55_P2008437	NM_009877	Cdkn2a	0.05	-1.5	0.01	-1.7	0.01	-1.5
A_55_P2073457	NM_173368	Chd6	0.06	-1.3	0.00	-1.5	0.00	-1.5
A_55_P2080956	NM_013490	Chka	0.17	-1.2	0.30	-1.1	0.00	-1.5
A_55_P1999082	NM_025809	Clec14a	0.92	-1.0	0.99	1.0	0.00	-1.5
A_51_P145662	NM_029465	Clec4g	0.31	1.3	0.60	-1.2	0.01	-1.5
A_52_P334670	NM_007715	Clock	0.03	-1.3	0.00	-1.4	0.00	-1.5
A_51_P302167	NM_172496	Cobl	0.59	-1.2	0.08	-1.4	0.00	-1.5
A_51_P304397	NM_027468	Cpm	0.23	-1.2	0.05	-1.3	0.00	-1.5

A_55_P2017914	NM_001113530	Csf1	0.46	-1.2	0.03	-1.4	0.00	-1.5
A_51_P363187	NM_008176	Cxcl1	0.08	-1.6	0.18	-1.4	0.04	-1.5
A_66_P135700	NM_001104531	Cyp2d11	0.72	-1.1	0.19	-1.2	0.00	-1.5
A_55_P2259500	AK083809	D130012P04Rik	0.06	-1.3	0.00	-1.5	0.00	-1.5
A_55_P2307080	AK083890	D130051D11Rik	0.27	-1.2	0.10	-1.3	0.00	-1.5
A_55_P2386256	AK051660	D130062J10Rik	0.16	-1.3	0.02	-1.3	0.00	-1.5
A_55_P2292046	AK084291	D230018H15Rik	0.64	-1.2	0.20	-1.3	0.01	-1.5
A_55_P2233373	AK032962	D930023I05Rik	0.54	-1.2	0.05	-1.4	0.01	-1.5
A_55_P1959973	NM_175539	Dcaf12l2	0.12	-1.3	0.04	-1.4	0.00	-1.5
A_51_P334104	NM_007833	Dcn	0.76	-1.2	0.03	-1.9	0.14	-1.5
A_51_P144349	NM_172442	Dtx4	0.10	-1.4	0.04	-1.4	0.00	-1.5
A_55_P2014978	NM_007889	Dvl3	0.49	-1.2	0.16	-1.3	0.00	-1.5
A_55_P2001233	NM_001162938	E430029J22Rik	0.97	-1.0	0.99	1.0	0.00	-1.5
A_66_P128761	NM_001162938	E430029J22Rik	0.93	1.0	0.90	-1.0	0.00	-1.5
A_51_P388478	NM_010110	Efnb1	0.05	-1.4	0.00	-1.5	0.00	-1.5
A_55_P2279140	AK089751	F830014O18Rik	0.08	-1.5	0.00	-1.6	0.01	-1.5
A_52_P5549	NM_001042501	Fam133b	0.87	-1.1	0.18	-1.3	0.01	-1.5
A_51_P447976	NM_001142952	Fam46c	0.13	-1.4	0.33	-1.2	0.00	-1.5
A_55_P2053933	NM_008259	Foxa1	0.39	-1.2	0.08	-1.3	0.00	-1.5
A_52_P233441	NM_008090	Gata2	0.09	-1.3	0.00	-1.5	0.00	-1.5
A_66_P111011	NM_008091	Gata3	0.98	-1.0	0.75	-1.1	0.01	-1.5
A_51_P411917	NM_010258	Gata6	0.02	-1.3	0.09	-1.2	0.00	-1.5
A_55_P2039196	NM_020014	Gfra4	0.12	-1.2	0.01	-1.3	0.00	-1.5
A_52_P467675	NM_001081971	Gm1337	0.75	-1.1	0.23	-1.2	0.00	-1.5
A_55_P2005420	XM_001478188	Gm16439	0.26	-1.3	0.01	-1.5	0.00	-1.5
A_55_P1999818	XM_001472026	Gm2006	0.66	-1.1	0.20	-1.3	0.00	-1.5
A_55_P2102759	XM_001473665	Gm2459	0.22	-1.3	0.07	-1.3	0.00	-1.5
A_55_P1980621	XM_001473665	Gm2459	0.91	-1.1	0.62	-1.1	0.00	-1.5
A_55_P2133624	XM_001475193	Gm2891	0.74	-1.1	0.25	-1.3	0.00	-1.5
A_55_P2109922	XM_001474867	Gm2921	0.33	-1.2	0.33	-1.2	0.00	-1.5
A_66_P113505	XM_001475977	Gm3006	0.11	-1.2	0.00	-1.4	0.00	-1.5
A_55_P2055523	XM_001475214	Gm3160	0.56	-1.1	0.12	-1.2	0.00	-1.5
A_55_P2042183	XM_001476516	Gm3181	0.39	-1.3	0.03	-1.5	0.00	-1.5
A_55_P1974780	XM_001476301	Gm3306	0.61	-1.2	0.13	-1.4	0.02	-1.5
A_55_P2134712	XM_001478003	Gm3781	0.02	-1.2	0.00	-1.3	0.00	-1.5
A_55_P2019838	XM_001478043	Gm3792	0.54	-1.2	0.16	-1.3	0.00	-1.5
A_55_P1980214	XM_001479026	Gm4099	0.02	-1.3	0.00	-1.3	0.00	-1.5
A_55_P2159850	XM_001479402	Gm4191	0.27	-1.3	0.09	-1.4	0.01	-1.5
A_55_P2063505	XM_001479508	Gm4235	0.43	-1.3	0.06	-1.4	0.01	-1.5
A_55_P2058467	XM_001479915	Gm4415	0.45	-1.2	0.04	-1.3	0.00	-1.5
A_55_P1960738	XM_001472780	Gm4470	0.53	-1.2	0.30	-1.2	0.00	-1.5
A_55_P2086835	XM_899874	Gm5514	0.60	-1.2	0.33	-1.2	0.00	-1.5
A_55_P1969396	XM_619384	Gm5809	0.19	-1.2	0.08	-1.2	0.00	-1.5
A_55_P2055763	NM_001034902	Gm5878	0.41	-1.2	0.12	-1.3	0.00	-1.5
A_55_P2055762	NM_001034902	Gm5878	0.08	-1.3	0.01	-1.4	0.00	-1.5
A_66_P106789	XM_894271	Gm6970	0.04	1.6	0.62	1.2	0.02	-1.5
A_55_P1957871	XM_983688	Gm8090	0.39	-1.2	0.22	-1.2	0.00	-1.5
A_55_P1957870	XM_983688	Gm8090	0.22	-1.2	0.01	-1.4	0.00	-1.5
A_55_P1957865	XM_001472293	Gm8090	0.90	-1.0	0.29	-1.2	0.00	-1.5

A_55_P2184567	XM_989827	Gm9677	0.61	-1.1	0.02	-1.4	0.00	-1.5
A_55_P2004806	NM_027658	Hexim2	0.07	-1.3	0.00	-1.4	0.00	-1.5
A_55_P1972018	NM_178208	Hist1h4c	0.66	-1.1	0.52	-1.1	0.00	-1.5
A_55_P1973349	NM_033596	Hist2h4	0.89	-1.1	0.84	-1.1	0.00	-1.5
A_51_P460643	NM_001079869	Hoxb3	0.16	-1.2	0.02	-1.3	0.00	-1.5
A_55_P1997951	NM_028242	Htatsf1	0.15	-1.2	0.03	-1.2	0.00	-1.5
A_66_P139546	NM_008344	Igfbp6	0.66	-1.2	0.10	-1.4	0.01	-1.5
A_55_P2092492	NM_001161842	Il18r1	0.83	-1.1	0.15	-1.4	0.02	-1.5
A_51_P505617	NM_008365	Il18r1	0.89	1.1	0.04	-1.4	0.00	-1.5
A_55_P2027737	NM_001025602	Il1rl1	0.57	-1.2	0.20	-1.2	0.00	-1.5
A_66_P103271	NM_001164598	Irf2bp2	0.02	-1.5	0.04	-1.4	0.00	-1.5
A_55_P2015670	NM_008397	Itga6	0.99	-1.0	0.97	-1.0	0.04	-1.5
A_55_P2004541	NM_001110323	Klra7	0.99	1.0	0.30	-1.3	0.04	-1.5
A_52_P42245	NM_010737	Klrb1a	0.38	-1.2	0.23	-1.2	0.00	-1.5
A_55_P1954006	NM_008492	Ldhb	0.56	-1.2	0.40	-1.2	0.00	-1.5
A_55_P2054728	NM_178886	Ldlrad3	0.09	-1.3	0.00	-1.4	0.00	-1.5
A_55_P2065537	XM_001478949	LOC100047427	0.37	-1.2	0.05	-1.4	0.00	-1.5
A_66_P118093	XM_001480420	LOC100048617	0.68	1.2	0.55	1.2	0.04	-1.5
A_55_P1988260	XM_001479382	LOC100048847	0.56	-1.2	0.16	-1.3	0.00	-1.5
A_55_P2378827	AK047890	LOC553096	0.03	-1.4	0.03	-1.4	0.00	-1.5
A_55_P1984523	XM_905877	LOC631924	0.04	-1.3	0.00	-1.4	0.00	-1.5
A_55_P2157522	XM_909351	LOC634585	0.13	-1.3	0.04	-1.3	0.00	-1.5
A_51_P116665	XM_912173	LOC636687	0.31	-1.2	0.07	-1.3	0.00	-1.5
A_55_P2150737	XM_975252	LOC674110	0.01	-1.3	0.00	-1.5	0.00	-1.5
A_55_P2036559	XM_990282	LOC676464	0.00	-1.3	0.00	-1.5	0.00	-1.5
A_51_P428134	NM_177152	Lrig3	0.96	-1.0	0.22	-1.2	0.00	-1.5
A_51_P296487	NM_146006	Lss	0.25	-1.3	0.05	-1.4	0.00	-1.5
A_55_P2062642	NM_025952	Magt1	0.20	-1.2	0.10	-1.2	0.00	-1.5
A_55_P2081388	NM_008575	Mdm4	0.60	-1.2	0.22	-1.3	0.00	-1.5
A_51_P386899	NM_145447	Mfsd7c	0.62	-1.2	0.24	-1.3	0.00	-1.5
A_51_P502132	NM_011985	Mmp23	0.31	-1.2	0.15	-1.3	0.00	-1.5
A_52_P123944	NM_029730	Mospd2	0.87	-1.1	0.06	-1.3	0.00	-1.5
A_51_P341746	NM_010823	Mpl	0.86	-1.1	0.29	-1.3	0.02	-1.5
A_51_P392928	NM_138745	Mthfd1	0.64	-1.1	0.32	-1.2	0.00	-1.5
A_55_P2069926	NM_009268	Muc11	0.56	-1.2	0.15	-1.3	0.01	-1.5
A_55_P1987409	NM_173444	Nbeal1	0.05	-1.4	0.21	-1.3	0.01	-1.5
A_51_P151433	NM_026554	Ncbp2	0.78	-1.1	0.06	-1.3	0.00	-1.5
A_52_P484956	NM_010923	Nnat	0.95	1.0	0.80	-1.1	0.01	-1.5
A_55_P2102002	NM_021315	Noc3l	0.21	-1.2	0.11	-1.2	0.00	-1.5
A_55_P1991199	NM_001109985	Nos1ap	0.04	-1.3	0.01	-1.4	0.00	-1.5
A_66_P134808	NM_027528	Nos1ap	0.10	-1.3	0.00	-1.4	0.00	-1.5
A_55_P2158522	NM_183355	Pbx1	0.57	-1.2	0.15	-1.3	0.00	-1.5
A_55_P1983754	NM_025557	Pcp4l1	0.32	-1.2	0.03	-1.3	0.00	-1.5
A_51_P467448	NM_172453	Pif1	0.07	-1.2	0.00	-1.4	0.00	-1.5
A_55_P2121985	NM_013829	Plcb4	0.93	1.0	0.46	-1.2	0.01	-1.5
A_55_P2000039	NM_011073	Prf1	0.50	-1.2	0.08	-1.3	0.00	-1.5
A_55_P2004752	NM_181852	Prl2c5	0.08	-1.5	0.09	-1.4	0.01	-1.5
A_52_P350664	NM_153781	Pygb	0.29	-1.2	0.04	-1.3	0.00	-1.5
A_51_P381558	NM_133914	Rasa4	0.97	-1.0	0.16	-1.3	0.00	-1.5

A_52_P134023	NM_153100	Rtp3	0.48	-1.2	0.05	-1.4	0.00	-1.5
A_55_P2075070	NM_053190	S1pr5	1.00	1.0	0.46	-1.2	0.01	-1.5
A_55_P1973159	NM_011340	Serpinf1	0.24	-1.3	0.06	-1.4	0.00	-1.5
A_51_P103780	NM_145512	Sft2d2	0.29	-1.2	0.02	-1.4	0.00	-1.5
A_51_P268069	NM_009189	Six1	0.35	-1.4	0.26	-1.4	0.03	-1.5
A_55_P2015074	NM_029415	Slc10a6	0.27	-1.4	0.09	-1.4	0.02	-1.5
A_55_P2099650	NM_053195	Slc24a3	0.03	-1.3	0.01	-1.3	0.00	-1.5
A_52_P98614	NM_009209	Slc6a2	0.17	-1.5	0.68	-1.2	0.04	-1.5
A_55_P2085142	NM_009263	Spp1	0.44	-1.2	0.02	-1.4	0.00	-1.5
A_51_P240864	NM_029012	Sppl3	0.18	-1.2	0.02	-1.3	0.00	-1.5
A_51_P232371	NM_138672	Stab1	0.87	-1.1	0.15	-1.3	0.00	-1.5
A_51_P484158	NM_027399	Steap1	0.34	-1.2	0.19	-1.2	0.00	-1.5
A_52_P606774	NM_021420	Stk4	1.00	-1.0	0.98	-1.0	0.00	-1.5
A_51_P321341	NM_133670	Sult1a1	0.68	-1.2	0.02	-1.5	0.01	-1.5
A_55_P2000978	NM_176931	Syt15	0.57	-1.1	0.05	-1.3	0.00	-1.5
A_55_P2433438	NM_011544	Tcf12	0.89	-1.1	0.53	-1.2	0.01	-1.5
A_55_P2136657	NM_013691	Thbs3	0.89	1.1	0.97	-1.0	0.00	-1.5
A_66_P102879	NM_178060	Thra	0.15	-1.3	0.01	-1.4	0.00	-1.5
A_55_P2041070	NM_001083927	Tle3	0.41	-1.2	0.07	-1.3	0.00	-1.5
A_55_P2178327	NM_009390	Tll1	0.97	1.0	0.12	-1.3	0.00	-1.5
A_55_P2038247	NM_019392	Tyro3	0.54	-1.2	0.14	-1.3	0.00	-1.5
A_51_P183051	NM_133995	Upb1	0.74	-1.1	0.40	-1.2	0.00	-1.5
A_55_P2101666	NM_016872	Vamp5	0.14	-1.2	0.01	-1.3	0.00	-1.5
A_52_P556140	NM_019806	Vapb	0.49	-1.3	0.04	-1.7	0.06	-1.5
A_55_P2013996	XM_001004714		0.00	-1.6	0.02	-1.4	0.00	-1.6
A_30_P01023847			0.03	-1.5	0.00	-1.6	0.00	-1.6
A_30_P01022248			0.02	-1.5	0.00	-1.6	0.00	-1.6
A_30_P01026880			0.00	-1.5	0.03	-1.4	0.00	-1.6
A_30_P01031754			0.41	-1.3	0.04	-1.5	0.00	-1.6
A_30_P01032827			0.15	-1.3	0.03	-1.5	0.00	-1.6
A_30_P01026776			0.15	-1.4	0.00	-1.6	0.00	-1.6
A_30_P01021211			0.72	-1.2	0.14	-1.5	0.02	-1.6
A_30_P01029602			0.49	-1.3	0.07	-1.5	0.01	-1.6
A_30_P01024724			0.65	-1.2	0.37	-1.3	0.01	-1.6
A_30_P01023072			0.05	-1.3	0.02	-1.4	0.00	-1.6
A_55_P2108903	AK038731		0.46	-1.2	0.05	-1.4	0.00	-1.6
A_30_P01022552			0.03	-1.4	0.00	-1.4	0.00	-1.6
A_30_P01021464			0.34	-1.2	0.65	-1.1	0.00	-1.6
A_30_P01023830			0.04	-1.3	0.00	-1.4	0.00	-1.6
A_30_P01026192			0.56	-1.2	0.04	-1.4	0.00	-1.6
A_30_P01022704			0.29	-1.3	0.06	-1.4	0.00	-1.6
A_30_P01031385			0.91	-1.1	0.69	-1.1	0.00	-1.6
A_55_P2363902	AK011494	2610020P09Rik	0.03	-1.4	0.00	-1.5	0.00	-1.6
A_55_P2413727	AK029795	4930565A17	0.14	-1.4	0.17	-1.3	0.00	-1.6
A_55_P2098275	XM_001474884	5730416O20Rik	0.11	-1.4	0.21	-1.3	0.00	-1.6
A_55_P2073935	NM_013790	Abcc5	0.32	-1.2	0.01	-1.5	0.00	-1.6
A_52_P29151	NM_001081433	Ankrd44	0.12	-1.2	0.00	-1.4	0.00	-1.6
A_52_P565575	NM_175535	Arhgap20	0.95	1.0	0.79	-1.1	0.01	-1.6
A_51_P111612	NM_001042592	Arrdc4	0.18	-1.3	0.07	-1.4	0.00	-1.6

A_51_P484842	NM_007493	Asgr2	0.11	-1.2	0.01	-1.3	0.00	-1.6
A_51_P209736	NM_153778	Atoh8	0.22	-1.2	0.00	-1.4	0.00	-1.6
A_52_P168097	NM_009722	Atp2a2	0.21	-1.3	0.02	-1.5	0.00	-1.6
A_52_P1020860	XM_888885	AW112010	0.40	-1.2	0.01	-1.5	0.00	-1.6
A_51_P517430	NM_007639	Cd1d1	0.52	-1.1	0.04	-1.3	0.00	-1.6
A_55_P1971174	NM_007640	Cd1d2	0.85	-1.1	0.14	-1.3	0.00	-1.6
A_51_P312035	NM_172050	Cd300e	0.53	1.2	0.95	1.0	0.01	-1.6
A_55_P2175469	NM_001081345	Chd2	0.58	-1.2	0.31	-1.3	0.00	-1.6
A_52_P329367	NM_001025566	Chka	0.10	-1.3	0.00	-1.5	0.00	-1.6
A_51_P229925	NM_021715	Chst7	0.97	-1.0	0.58	-1.2	0.00	-1.6
A_55_P1962011	NM_019985	Clec1b	0.40	-1.3	0.17	-1.3	0.00	-1.6
A_55_P1962010	NM_019985	Clec1b	0.50	-1.3	0.45	-1.2	0.00	-1.6
A_55_P1962209	NM_030712	Cxcr6	0.36	-1.2	0.07	-1.4	0.00	-1.6
A_55_P2117959	NM_007823	Cyp4b1	0.33	-1.2	0.04	-1.3	0.00	-1.6
A_55_P1993777	NM_001039167	D11Bwg0517e	0.22	-1.3	0.05	-1.4	0.00	-1.6
A_55_P2128148	NM_001167918	D830031N03Rik	0.01	-1.5	0.03	-1.3	0.00	-1.6
A_55_P2333126	AK088506	E330018D03Rik	0.22	-1.2	0.02	-1.4	0.00	-1.6
A_55_P2036627	NM_001162938	E430029J22Rik	0.85	-1.1	0.56	-1.2	0.02	-1.6
A_55_P2017845	NM_153078	Ehbp1	0.19	-1.2	0.00	-1.5	0.00	-1.6
A_66_P109519	NM_007914	Ehf	0.42	-1.3	0.27	-1.4	0.03	-1.6
A_55_P2240823	NM_001128606	Epb4.1	0.82	-1.1	0.35	-1.2	0.00	-1.6
A_55_P1966109	NM_010148	Epn2	0.23	-1.3	0.09	-1.3	0.00	-1.6
A_52_P208613	NM_175027	Fancb	0.92	-1.0	0.27	-1.2	0.00	-1.6
A_51_P375987	NM_021716	Fign	0.08	-1.6	0.19	-1.4	0.01	-1.6
A_55_P2155848	NR_030683	Gm14207	0.44	1.4	0.67	1.2	0.02	-1.6
A_66_P125110	XM_001475977	Gm3006	0.16	-1.2	0.02	-1.3	0.00	-1.6
A_52_P239023	NM_001142957	Gm4455	0.14	-1.3	0.08	-1.3	0.00	-1.6
A_52_P33382	XM_356935	Gm5226	0.62	-1.2	0.49	-1.3	0.02	-1.6
A_52_P352362	NM_001039251	Gm7265	0.03	-1.3	0.01	-1.3	0.00	-1.6
A_55_P1967002	XM_001473953	Gm9441	0.05	-1.5	0.07	-1.4	0.00	-1.6
A_51_P436068	NM_007412	Gpr182	0.95	1.1	0.43	-1.3	0.04	-1.6
A_51_P128463	NM_001099296	Grrp1	0.86	-1.1	0.40	-1.2	0.00	-1.6
A_55_P2091147	NM_178211	Hist1h4k	0.77	-1.1	0.92	-1.0	0.00	-1.6
A_55_P2091145	NM_178211	Hist1h4k	0.63	-1.1	0.58	-1.1	0.00	-1.6
A_51_P436342	NM_008268	Hoxb5	0.32	-1.3	0.11	-1.3	0.00	-1.6
A_55_P2115871	NM_172439	Inpp5j	0.12	-1.5	0.04	-1.6	0.01	-1.6
A_52_P163849	NM_001039511	Ins1abp	0.88	-1.1	0.28	-1.3	0.00	-1.6
A_55_P2408415	NR_001461	Kcnq1ot1	0.02	-1.4	0.00	-1.5	0.00	-1.6
A_51_P448178	NM_175519	Kctd8	0.84	-1.1	0.32	-1.2	0.00	-1.6
A_55_P1968799	NM_027157	Krtap1-5	0.95	-1.1	0.02	-3.8	0.49	-1.6
A_55_P2151209	NM_130873	Krtap16-4	0.46	-1.2	0.10	-1.3	0.00	-1.6
A_55_P2072041	XM_001472087	LOC100038980	0.56	-1.2	0.08	-1.4	0.00	-1.6
A_55_P2170279	XM_001480005	LOC100048321	0.81	-1.1	0.09	-1.3	0.00	-1.6
A_66_P112862	NR_033146	LOC100316870	0.16	-1.2	0.01	-1.3	0.00	-1.6
A_55_P2108486	XM_903408	LOC630284	0.00	-1.3	0.00	-1.5	0.00	-1.6
A_51_P479818	NM_028894	Lonrf3	0.63	-1.2	0.11	-1.4	0.00	-1.6
A_55_P2181597	NM_008546	Mfap2	0.00	-1.6	0.00	-1.7	0.00	-1.6
A_51_P500882	NM_010746	Ncr1	0.42	-1.2	0.10	-1.4	0.00	-1.6
A_55_P2172470	NM_022029	Nrgn	0.30	-1.3	0.12	-1.3	0.00	-1.6

A_52_P572197	NM_145962	Pank3	0.21	-1.3	0.07	-1.4	0.00	-1.6
A_52_P530291	NM_008842	Pim1	0.17	-1.3	0.02	-1.4	0.00	-1.6
A_51_P495780	NM_020568	Plin4	0.38	-1.5	0.03	-2.0	0.15	-1.6
A_51_P361492	NM_198934	Pou2f1	0.02	-1.4	0.01	-1.5	0.00	-1.6
A_51_P413111	AK147389	Ppm1l	0.56	-1.2	0.15	-1.2	0.00	-1.6
A_51_P340699	NM_026864	Rasl11a	0.02	-1.6	0.14	-1.4	0.00	-1.6
A_52_P541161	NM_022881	Rgs18	0.60	-1.2	0.18	-1.3	0.00	-1.6
A_55_P2142226	NM_001034870	Serpina3h	0.01	-7.8	0.13	-3.4	0.62	-1.6
A_55_P1975185	NM_009270	Sqle	0.21	-1.3	0.03	-1.4	0.00	-1.6
A_51_P240693	NM_027410	Tecpr1	0.01	-1.3	0.00	-1.5	0.00	-1.6
A_55_P2017636	NM_011580	Thbs1	0.81	-1.2	0.43	-1.3	0.04	-1.6
A_55_P2063465	NM_013691	Thbs3	0.92	1.0	0.75	-1.1	0.00	-1.6
A_52_P799815	NM_001025606	Tmem171	0.12	-1.3	0.02	-1.4	0.00	-1.6
A_55_P2034300	NM_001168256	Tmem40	0.79	1.2	0.49	-1.3	0.04	-1.6
A_55_P2145711	NM_172913	Tox3	0.97	-1.0	0.95	-1.0	0.00	-1.6
A_52_P274496	NM_183180	Tspan18	0.02	-1.3	0.01	-1.4	0.00	-1.6
A_55_P2055528	NM_178671	Ubxn10	0.35	-1.4	0.54	-1.2	0.02	-1.6
A_55_P2212027	NM_011682	Utm	0.73	-1.1	0.56	-1.2	0.00	-1.6
A_66_P100937	XM_001487796	Zfp33b	0.94	-1.0	0.38	-1.2	0.00	-1.6
A_55_P1977003	XM_001475321		0.04	-1.6	0.00	-1.8	0.00	-1.7
A_55_P1967153	AK136565		0.01	-1.6	0.01	-1.7	0.00	-1.7
A_30_P01029711			0.16	-1.3	0.01	-1.5	0.00	-1.7
A_30_P01027919			0.29	-1.2	0.00	-1.5	0.00	-1.7
A_30_P01028904			0.02	-1.3	0.00	-1.5	0.00	-1.7
A_55_P1982075			0.28	-1.3	0.02	-1.6	0.00	-1.7
A_55_P2034625	AK082711		0.18	-1.3	0.00	-1.6	0.00	-1.7
A_30_P01032647			0.70	-1.2	0.18	-1.4	0.01	-1.7
A_30_P01022668			0.31	-1.2	0.02	-1.4	0.00	-1.7
A_30_P01032670			0.13	-1.4	0.10	-1.4	0.00	-1.7
A_55_P2105517	XM_001473956		0.01	-1.4	0.00	-1.4	0.00	-1.7
A_30_P01028021			0.31	-1.3	0.11	-1.3	0.00	-1.7
A_30_P01025092			0.02	-1.4	0.02	-1.4	0.00	-1.7
A_30_P01021970			0.30	-1.3	0.05	-1.4	0.00	-1.7
A_30_P01033587			0.56	-1.3	0.25	-1.4	0.00	-1.7
A_55_P2085835	NM_001033304	5330417C22Rik	0.58	-1.2	0.11	-1.3	0.00	-1.7
A_55_P2059640	NM_029631	Abhd14b	0.08	-1.7	0.18	-1.5	0.03	-1.7
A_55_P2038358	NM_012006	Acot1	0.50	-1.3	0.84	-1.1	0.01	-1.7
A_55_P2193512	BB034038	Al661384	0.65	-1.2	0.08	-1.4	0.00	-1.7
A_55_P1958921	AK162301	Ankrd29	0.18	-1.3	0.54	-1.1	0.00	-1.7
A_55_P2003824	NM_009714	Asgr1	0.93	-1.1	0.22	-1.5	0.02	-1.7
A_66_P102467	AK048565	Casz1	0.19	-1.3	0.00	-1.7	0.00	-1.7
A_55_P2050390	NM_174988	Cdh22	0.49	-1.2	0.10	-1.4	0.00	-1.7
A_51_P339540	NM_009876	Cdkn1c	0.47	-1.2	0.02	-1.5	0.00	-1.7
A_55_P2216976	AK143258	D13Ertd608e	0.11	-1.3	0.01	-1.5	0.00	-1.7
A_55_P2031167	NM_010107	Efna1	0.94	1.0	0.94	-1.0	0.00	-1.7
A_55_P1991911	XM_909743	EG626095	0.52	-1.2	0.17	-1.3	0.00	-1.7
A_52_P106259	NM_207655	Egfr	0.31	-1.2	0.00	-1.3	0.00	-1.7
A_55_P1956863	NM_007912	Egfr	0.07	-1.3	0.00	-1.3	0.00	-1.7
A_51_P286357	NM_139138	Emr4	0.90	1.1	0.99	1.0	0.00	-1.7

A_55_P2088018	NM_175276	Fhod3	0.42	-1.3	0.01	-1.6	0.00	-1.7
A_55_P2144556	NM_178382	Flrt3	0.76	-1.1	0.72	-1.1	0.00	-1.7
A_51_P361220	NM_008055	Fzd4	0.13	-1.3	0.00	-1.5	0.00	-1.7
A_51_P462428	AK019470	Galnt12	0.44	-1.4	0.08	-1.6	0.02	-1.7
A_55_P1957867	XM_001472293	Gm8090	0.33	-1.2	0.02	-1.4	0.00	-1.7
A_55_P2426941	BC040234	Gprn3	0.07	-1.3	0.01	-1.4	0.00	-1.7
A_55_P2158701	NM_175654	Hist1h4d	0.92	-1.0	0.87	-1.1	0.00	-1.7
A_55_P2125013	NM_178210	Hist1h4j	0.46	-1.2	0.62	-1.1	0.00	-1.7
A_55_P1988754	NM_175652	Hist4h4	0.67	-1.1	0.73	-1.1	0.00	-1.7
A_52_P253179	NM_008343	Igfbp3	0.67	-1.2	0.12	-1.4	0.00	-1.7
A_55_P2151638	NM_013793	Klra15	0.58	-1.2	0.07	-1.5	0.00	-1.7
A_55_P1979147	NM_001159904	Klrb1c	0.61	-1.2	0.17	-1.3	0.00	-1.7
A_66_P105422	NM_028894	Lonrf3	0.60	-1.1	0.07	-1.3	0.00	-1.7
A_55_P2062793	NM_008546	Mfap2	0.06	-1.4	0.00	-1.9	0.00	-1.7
A_55_P1980426	NM_010923	Nnat	0.87	1.1	0.79	-1.1	0.00	-1.7
A_55_P1973011	NM_178726	Ppm1l	0.02	-1.4	0.00	-1.5	0.00	-1.7
A_55_P2031989	NM_028724	Rin2	0.92	-1.1	0.34	-1.3	0.00	-1.7
A_55_P2168023	NM_001025379	Sema3g	0.71	1.2	0.74	1.1	0.00	-1.7
A_52_P273169	NM_001082414	Sh3d19	0.14	-1.3	0.05	-1.4	0.00	-1.7
A_55_P2094721	NM_009234	Sox11	0.99	-1.0	0.05	-1.7	0.02	-1.7
A_51_P210143	NM_001005510	Syne2	0.20	-1.3	0.06	-1.4	0.00	-1.7
A_55_P2413458	NM_023755	Tcfcp2l1	0.41	-1.2	0.18	-1.3	0.00	-1.7
A_55_P2062246	NM_001145164	Tgtp2	0.82	-1.2	0.27	-1.5	0.04	-1.7
A_52_P139413	NM_001100462	Tmem221	0.78	-1.2	0.80	-1.1	0.04	-1.7
A_55_P2126363	NM_011718	Wnt10b	0.98	1.0	0.99	1.0	0.00	-1.7
A_55_P2085826			0.13	-1.7	0.19	-1.6	0.02	-1.8
A_55_P2275402	AK020385	9330177L23Rik	0.31	-1.2	0.00	-1.6	0.00	-1.8
A_55_P2373987	AK047818	A730009E18Rik	0.00	-1.5	0.00	-1.6	0.00	-1.8
A_51_P458451	NM_009605	Adipoq	0.34	-2.0	0.01	-3.6	0.24	-1.8
A_55_P2266977	NM_021414	Ahcyl2	0.01	-1.4	0.00	-1.5	0.00	-1.8
A_52_P97572	NM_011784	Aplnr	0.49	1.4	0.68	1.2	0.03	-1.8
A_55_P2402929	AK080903	B430203I24Rik	0.32	-1.3	0.13	-1.3	0.00	-1.8
A_51_P419389	NM_007561	Bmpr2	0.03	-1.4	0.01	-1.4	0.00	-1.8
A_55_P2055985	NM_130904	Cd209d	0.72	-1.1	0.08	-1.3	0.00	-1.8
A_55_P2143837	NM_007735	Col4a4	0.72	-1.2	0.03	-1.6	0.00	-1.8
A_55_P2025675	NM_013811	Dnahc8	0.90	1.1	0.82	1.1	0.00	-1.8
A_55_P2153783	NM_010231	Fmo1	0.33	-1.3	0.26	-1.3	0.00	-1.8
A_52_P493091	NM_008031	Fmr1	0.41	-1.2	0.02	-1.5	0.00	-1.8
A_51_P267544	NM_013522	Frg1	0.36	-1.3	0.02	-1.5	0.00	-1.8
A_55_P2338200	NM_153803	Glb1l2	0.20	-1.3	0.00	-1.7	0.00	-1.8
A_55_P2058601	XM_920293	Gm7097	0.72	-1.2	0.20	-1.3	0.00	-1.8
A_51_P153995	NM_018762	Gp9	0.24	-1.5	0.19	-1.4	0.00	-1.8
A_55_P2119917	NM_011772	Ikzf4	0.03	-1.5	0.00	-1.8	0.00	-1.8
A_55_P1979674	NM_011772	Ikzf4	0.06	-1.4	0.00	-1.7	0.00	-1.8
A_55_P2001494	NM_013598	Kitl	0.23	-1.4	0.01	-1.6	0.00	-1.8
A_52_P52128	NM_001039522	Leo1	0.23	-1.4	0.21	-1.3	0.00	-1.8
A_52_P30451	NM_016854	Ppp1r3c	0.20	-1.4	0.01	-1.7	0.00	-1.8
A_55_P1984806	NM_022984	Retn	0.61	-1.6	0.01	-3.3	0.21	-1.8
A_51_P111164	NM_172612	Rnd1	0.86	-1.1	0.46	-1.2	0.00	-1.8

A_51_P247637	NM_080563	Rnf144a	0.08	-1.5	0.19	-1.3	0.00	-1.8
A_52_P532227	NM_007901	S1pr1	0.01	-1.6	0.00	-1.7	0.00	-1.8
A_51_P380432	NM_198885	Scx	0.76	-1.1	0.57	-1.1	0.00	-1.8
A_51_P493117	NM_025807	Slc16a9	0.18	-1.3	0.07	-1.3	0.00	-1.8
A_51_P279062	NM_027763	Trem1	0.35	-1.4	0.09	-1.5	0.00	-1.8
A_51_P108020	NM_001029929	Zmynd15	0.53	-1.2	0.00	-1.4	0.00	-1.8
A_30_P01028435			0.52	-1.3	0.03	-1.8	0.00	-1.9
A_30_P01021642			0.00	-1.4	0.01	-1.3	0.00	-1.9
A_51_P265571	NM_009627	Adm	0.04	-1.7	0.01	-1.8	0.00	-1.9
A_55_P2153620	NM_001039959	Ahnak	0.85	-1.2	0.31	-1.5	0.02	-1.9
A_51_P351194	NM_028219	Cnfn	0.37	1.6	0.57	-1.3	0.03	-1.9
A_55_P2395911	AK035822	D2Ertd295e	0.00	-1.6	0.00	-1.7	0.00	-1.9
A_55_P1977533	NM_001136062	Eno3	0.93	1.1	0.27	-1.6	0.04	-1.9
A_52_P508991	NM_010231	Fmo1	0.75	-1.2	0.20	-1.4	0.00	-1.9
A_66_P115004	NM_146017	Gabrp	0.74	-1.2	0.08	-1.6	0.00	-1.9
A_52_P669922	NM_032541	Hamp	0.84	-1.2	0.26	-1.6	0.04	-1.9
A_51_P258409	NM_010423	Hey1	0.94	-1.1	0.93	1.1	0.00	-1.9
A_55_P1998416	NM_008330	Ifi47	0.37	-1.3	0.11	-1.4	0.00	-1.9
A_52_P257502	NM_010517	Igfbp4	0.83	-1.1	0.29	-1.2	0.00	-1.9
A_55_P2061645	AK140300	ND6	0.10	-1.3	0.00	-1.5	0.00	-1.9
A_55_P2049186	NM_032398	Plvap	0.91	1.1	0.87	1.1	0.00	-1.9
A_55_P2428514	AK131869	Retn	0.39	-1.7	0.01	-3.0	0.10	-1.9
A_55_P2086885	NM_001033219	Slc45a4	0.05	-1.3	0.00	-1.5	0.00	-1.9
A_55_P1968355	NM_011599	Tle1	0.41	-1.2	0.12	-1.3	0.00	-1.9
A_55_P2025820	XM_001480287		0.15	-1.6	0.09	-1.6	0.00	-2.0
A_55_P2209053	AK013461	2900001G08Rik	0.57	-1.2	0.50	-1.2	0.00	-2.0
A_52_P337126	NM_024285	Bves	0.04	-1.5	0.01	-1.7	0.00	-2.0
A_52_P153291	NM_145700	Ccrl1	0.88	-1.1	0.11	-1.4	0.00	-2.0
A_55_P1964348	NM_023608	Gdpd2	0.92	-1.1	0.07	-2.0	0.02	-2.0
A_55_P2068459	NM_010479	Hspa1a	0.21	-1.6	0.03	-2.0	0.00	-2.0
A_51_P487690	NM_133871	Ifi44	0.15	-1.4	0.00	-1.6	0.00	-2.0
A_55_P2069818	NM_009158	Mapk10	0.61	-1.4	0.04	-2.2	0.03	-2.0
A_55_P2034245	NM_010791	Meox1	0.98	-1.0	0.05	-1.4	0.00	-2.0
A_55_P2165790	NM_178706	Siglech	0.05	-1.5	0.01	-1.6	0.00	-2.0
A_55_P2074453	NM_025807	Slc16a9	0.27	-1.4	0.17	-1.4	0.00	-2.0
A_51_P444137	NM_001143765	Syce1	0.54	-1.3	0.00	-2.0	0.00	-2.0
A_52_P229052	NM_019790	Tmeff2	0.95	-1.1	0.05	-1.8	0.00	-2.0
A_52_P146711	NM_009432	Tshb	0.55	-1.4	0.41	-1.4	0.02	-2.0
A_30_P01021593			0.00	-1.5	0.01	-1.4	0.00	-2.1
A_30_P01022310			0.00	-1.5	0.00	-1.4	0.00	-2.1
A_55_P2025655	CB248850		0.11	-1.8	0.09	-1.8	0.00	-2.1
A_55_P2004532	NM_175696	C530028O21Rik	0.45	-1.5	0.02	-2.1	0.00	-2.1
A_51_P196925	NM_009142	Cx3cl1	0.74	-1.2	0.13	-1.4	0.00	-2.1
A_55_P2007964	NM_009987	Cx3cr1	0.88	-1.1	0.21	-1.3	0.00	-2.1
A_55_P2033780	NM_010174	Fabp3	0.80	-1.2	0.14	-1.8	0.02	-2.1
A_51_P140237	NM_010212	Fhl2	0.52	-1.4	0.01	-2.3	0.00	-2.1
A_52_P514407	NM_013793	Klra15	0.61	-1.2	0.12	-1.5	0.00	-2.1
A_51_P308912	NM_026831	Mybphl	0.55	-1.6	0.02	-2.9	0.06	-2.1
A_52_P381484	NM_133903	Spon2	0.34	-1.4	0.17	-1.5	0.00	-2.1

A_55_P1985950	NM_133213	Xpnpep2	0.99	-1.0	0.27	-1.4	0.00	-2.1
A_51_P431329	NM_007606	Car3	0.74	-1.6	0.01	-5.1	0.21	-2.2
A_51_P148612	NM_009944	Cox7a1	0.76	-1.3	0.05	-2.1	0.01	-2.2
A_51_P336833	NM_024406	Fabp4	0.18	-2.3	0.00	-4.5	0.09	-2.2
A_52_P493620	NM_026218	Fgfr1op2	0.01	-1.7	0.00	-1.9	0.00	-2.2
A_55_P2126557	XM_619973	Gm5858	0.00	-1.6	0.00	-1.6	0.00	-2.2
A_51_P254262	NM_130858	Nxph3	0.02	-1.6	0.00	-1.9	0.00	-2.2
A_55_P2018666	NM_009381	Thrsp	0.32	-1.7	0.00	-2.8	0.01	-2.2
A_55_P2153021	NM_011652	Ttn	0.82	-1.3	0.04	-3.2	0.13	-2.2
A_55_P2179726	NM_027279	2810422O20Rik	0.81	-1.2	0.06	-1.9	0.00	-2.3
A_52_P650387	NM_001045530	Ccnjl	0.00	-1.6	0.00	-1.7	0.00	-2.3
A_66_P105032	NM_001145034	Gm13889	0.17	-1.4	0.00	-1.7	0.00	-2.3
A_55_P2028734	NM_013794	Klra16	0.61	-1.3	0.06	-1.7	0.00	-2.3
A_55_P2054362	XM_001472585	LOC100048875	0.78	-1.1	0.23	-1.4	0.00	-2.3
A_55_P2035320	NM_017373	Nfil3	0.01	-1.8	0.00	-2.2	0.00	-2.3
A_55_P2021585	NM_009362	Tff1	0.03	-3.0	0.09	-2.3	0.04	-2.3
A_51_P156955	NM_013459	Cfd	0.69	-1.7	0.01	-7.1	0.18	-2.4
A_52_P554703	NM_183183	Gprin3	0.01	-1.5	0.00	-1.7	0.00	-2.4
A_51_P179258	NM_001161665	Kif26b	0.02	-1.5	0.00	-1.7	0.00	-2.4
A_55_P2112005	NM_009362	Tff1	0.05	-2.8	0.10	-2.3	0.03	-2.4
A_51_P264495	NM_018870	Pgam2	0.70	-1.5	0.07	-2.6	0.03	-2.5
A_51_P290931	AK019450		0.26	-1.3	0.00	-1.8	0.00	-2.6
A_51_P439085	NM_023516	2310016C08Rik	0.60	-1.3	0.59	-1.2	0.00	-2.6
A_55_P2403769	BB498095	Al481121	0.02	-1.8	0.00	-2.6	0.00	-2.6
A_55_P2050226	AY072938	Ccl1	0.86	-1.1	0.14	-1.4	0.00	-2.6
A_51_P283473	NM_026271	Fibin	0.32	-1.4	0.00	-2.0	0.00	-2.6
A_55_P2058783	NM_023516	2310016C08Rik	0.51	-1.3	0.51	-1.3	0.00	-2.7
A_52_P631547	NM_001081106	Cyt11	0.46	-1.4	0.00	-2.2	0.00	-2.7
A_51_P248638	NM_021503	Myoz2	0.50	-1.8	0.04	-3.4	0.04	-2.7
A_30_P01024606			0.00	-1.6	0.00	-1.6	0.00	-2.8
A_52_P638459	NM_013653	Ccl5	0.17	-1.9	0.01	-2.4	0.00	-2.8
A_55_P2170349	NM_053152	Klra22	0.30	-1.4	0.03	-1.8	0.00	-2.8
A_55_P2004536	NM_010649	Klra4	0.23	-1.5	0.02	-1.9	0.00	-2.8
A_55_P2129469	XM_918544	LOC641199	0.32	-1.6	0.00	-2.5	0.00	-2.9
A_51_P386983	NM_009406	Tnni3	0.69	-1.7	0.03	-4.1	0.06	-3.0
A_55_P2089710	NM_007904	Ednrb	0.40	-1.4	0.00	-2.4	0.00	-3.1
A_55_P1965030	NM_001003915	Slc5a12	0.01	-2.0	0.00	-2.8	0.00	-3.2
A_55_P1990032	NM_009141	Cxcl5	0.07	-2.3	0.02	-2.5	0.00	-3.3
A_65_P10195	NM_022879	Myl7	0.71	-1.7	0.04	-4.3	0.05	-3.3
A_55_P2000973	NM_181529	Syt15	0.99	-1.0	0.16	-1.4	0.00	-3.3
A_52_P577662	NM_007904	Ednrb	0.25	-1.5	0.00	-2.5	0.00	-3.5
A_55_P2408588	NM_007489	Arntl	0.00	-2.1	0.00	-2.6	0.00	-3.6
A_51_P416858	NM_021285	Myl1	0.98	-1.1	0.01	-5.4	0.01	-3.6
A_51_P356055	NM_175012	Grp	0.54	-1.3	0.00	-2.2	0.00	-3.8
A_52_P257625	NM_023612	Esm1	0.99	1.0	0.93	-1.1	0.00	-4.1
A_51_P175424	NM_011797	Car14	0.00	-1.8	0.00	-2.8	0.00	-4.3
A_51_P501844	NM_175475	Cyp26b1	0.04	-3.1	0.06	-2.7	0.00	-4.3
A_52_P413395	NM_025540	Sln	0.86	-1.4	0.07	-4.8	0.03	-4.7
A_55_P2011341	XM_001474162	LOC100045268	0.37	-1.8	0.01	-3.6	0.00	-5.7

A_55_P2094060	NM_010370	Gzma	0.21	-2.0	0.00	-3.8	0.00	-6.6
A_51_P331328	NM_026730	Gpihbp1	0.82	-1.2	0.26	-1.6	0.00	-10.7

3.3.3 BghiP Lung. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 6.25, 12.5, and 25 mg/kg-bw/day benzo(ghi)perylene in the lung. The list is sorted from highest to lowest fold change in the 25 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	6.25 mg/kg-bw/day		12.5 mg/kg-bw/day		25 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_55_P2032081	NM_016974	Dbp	0.70	1.4	0.00	2.9	0.00	2.6
A_55_P2032079	NM_016974	Dbp	0.76	1.3	0.03	2.8	0.01	2.5
A_52_P460836	NM_177303	Lrrn4	0.12	1.8	0.00	2.1	0.00	2.4
A_51_P223776	NM_145434	Nr1d1	0.29	1.6	0.00	2.1	0.00	2.2
A_51_P520849	NM_009144	Sfrp2	0.21	1.8	0.02	2.0	0.00	2.1
A_52_P114889	NM_175309	Upk3b	0.11	1.7	0.00	1.8	0.00	2.0
A_55_P1960735	NM_011819	Gdf15	0.96	1.0	0.89	1.1	0.01	1.9
A_55_P1963463	NM_008067	Gabra3	0.00	1.4	0.00	1.5	0.00	1.8
A_30_P01023737			0.33	1.6	0.09	1.7	0.04	1.7
A_55_P2449750	NM_001100116	1700047117Rik2	0.87	1.1	0.89	1.1	0.01	1.7
A_55_P1986282	NM_0011111099	Cdkn1a	0.98	-1.0	0.94	1.0	0.00	1.7
A_51_P300618	NM_001163566	Crb2	0.31	1.5	0.03	1.7	0.03	1.7
A_55_P2054362	XM_001472585	LOC100048875	0.28	1.6	0.14	1.6	0.04	1.7
A_51_P304239	NM_010729	Loxl1	0.17	1.4	0.03	1.5	0.00	1.7
A_55_P2085771	NM_175561	Pcnxl2	0.34	1.4	0.07	1.5	0.01	1.7
A_55_P2109857	NM_009061	Rgs2	0.33	1.3	0.04	1.5	0.00	1.7
A_51_P142421	NM_138683	Rspo1	0.00	1.6	0.03	1.4	0.00	1.7
A_55_P1988689	AK131832		0.24	1.5	0.04	1.6	0.03	1.6
A_51_P363947	NM_007669	Cdkn1a	0.94	-1.1	0.99	1.0	0.04	1.6
A_51_P284426	NM_030137	Cstad	0.40	1.4	0.50	1.2	0.01	1.6
A_55_P2065866	NM_030206	Cygb	0.43	1.3	0.00	1.8	0.00	1.6
A_52_P566681	NM_153581	Gpm6a	0.18	1.5	0.16	1.4	0.00	1.6
A_51_P151902	NM_145584	Spon1	0.42	1.4	0.48	1.3	0.02	1.6
A_52_P62444	NM_013681	Syn2	0.55	1.3	0.67	1.2	0.03	1.6
A_51_P429276	NM_016963	Tmod3	0.35	1.4	0.86	1.1	0.01	1.6
A_52_P173442	NM_177292	Wscd2	0.56	1.2	0.00	1.6	0.00	1.6
A_30_P01027010			0.71	1.1	0.80	1.1	0.01	1.5
A_51_P191893	AK163489		0.34	1.2	0.09	1.3	0.00	1.5
A_30_P01020960			0.87	1.1	0.59	1.1	0.00	1.5
A_55_P2026982	NM_173744	2610019F03Rik	0.34	1.4	0.12	1.4	0.03	1.5
A_55_P2470474	AK087205	9530082P21Rik	0.75	1.1	0.39	1.3	0.04	1.5
A_55_P1954724	NR_002860	A130040M12Rik	0.25	1.3	0.10	1.3	0.01	1.5
A_55_P2169227	NM_177716	Al836003	0.61	1.2	0.60	1.2	0.00	1.5
A_51_P209327	NM_013912	Apln	0.57	1.3	0.41	1.3	0.04	1.5
A_52_P97572	NM_011784	Aplnr	0.39	1.4	0.17	1.4	0.04	1.5
A_55_P1978241	NM_009711	Artn	0.27	1.3	0.00	1.5	0.00	1.5
A_52_P601021	NM_026979	C1qtnf2	0.52	1.3	0.24	1.4	0.03	1.5

A_51_P497985	NM_013484	C2	0.29	1.4	0.00	1.5	0.02	1.5
A_51_P460954	NM_009139	Ccl6	0.55	1.2	0.05	1.5	0.01	1.5
A_55_P2005213	NM_145603	Ces2	0.62	1.2	0.10	1.4	0.01	1.5
A_55_P1959500	NM_172759	Ces5	0.81	1.1	0.04	1.5	0.02	1.5
A_51_P277006	NM_175140	Chst8	0.59	1.2	0.54	1.2	0.03	1.5
A_55_P2062469	NM_007730	Col12a1	0.53	1.2	0.29	1.3	0.00	1.5
A_55_P2118520	NM_007742	Col1a1	0.41	1.3	0.21	1.3	0.00	1.5
A_55_P2001250	NM_153107	Cpz	0.65	1.2	0.15	1.4	0.02	1.5
A_51_P140641	NM_145570	Fam176a	0.29	1.3	0.23	1.3	0.00	1.5
A_55_P2040245	NM_001039485	Fam38b	0.59	1.2	0.20	1.3	0.00	1.5
A_55_P1964664	NM_139149	Fus	0.48	1.3	0.24	1.3	0.01	1.5
A_52_P313217	NM_001081342	Gpr133	0.34	1.4	0.19	1.4	0.03	1.5
A_55_P1992910	NM_013755	Gyg	0.53	1.2	0.32	1.3	0.01	1.5
A_55_P2082929	NM_010389	H2-Ob	0.63	1.2	0.16	1.5	0.04	1.5
A_55_P2096226	NM_010729	Loxl1	0.50	1.2	0.09	1.4	0.00	1.5
A_51_P426270	NM_008597	Mgp	0.77	1.1	0.08	1.4	0.01	1.5
A_55_P2086682	NM_001113209	Nfib	0.28	1.3	0.04	1.3	0.00	1.5
A_66_P106808	NM_018732	Scn3a	0.80	1.1	0.43	1.3	0.04	1.5
A_55_P2103026	NM_028882	Sema3d	0.61	1.2	0.09	1.4	0.01	1.5
A_55_P2091506	NM_001100110	Srp54c	0.95	1.0	0.99	1.0	0.03	1.5
A_51_P450527	NM_011526	Tagln	0.93	1.1	0.59	1.2	0.03	1.5
A_65_P10913	NM_009367	Tgfb2	0.43	1.2	0.07	1.3	0.00	1.5
A_55_P2078633	NM_009780	C4b	0.36	1.5	0.04	1.7	0.22	1.4
A_51_P517695	NM_008530	Ly6f	0.95	-1.0	0.04	1.6	0.24	1.4
A_55_P2117525	NM_001166410	Rbm3	0.93	1.0	0.03	1.5	0.02	1.4
A_55_P2104975	NM_001168294	Serpina3f	0.70	1.2	0.04	1.8	0.22	1.4
A_55_P1962937	NM_031254	Trem2	0.81	1.1	0.03	1.5	0.10	1.4
A_51_P255657	XM_985599	2210011C24Rik	0.49	1.2	0.00	1.5	0.11	1.3
A_51_P278868	NM_010387	H2-DMb1	0.70	1.2	0.02	1.6	0.29	1.3
A_55_P2049752	NM_173749	Pamr1	0.37	1.3	0.04	1.5	0.14	1.3
A_55_P2001628	NR_003634	Rps4y2	0.25	1.4	0.04	1.5	0.23	1.3
A_66_P112024	XM_892675	Gm6816	0.42	1.3	0.00	1.5	0.34	1.2
A_55_P2070869	NM_008491	Lcn2	0.90	-1.1	0.03	1.5	0.41	1.2
A_51_P224164	NM_011867	Slc26a4	0.93	1.1	0.02	2.1	0.92	1.1
A_55_P1963483	NM_030559	Vps16	0.76	1.5	0.00	-5.9	0.95	1.1
A_52_P455404	NM_025922	Itpa	0.84	1.2	0.00	-2.9	1.00	-1.0
A_55_P2105512	NM_024193	Nop56	0.94	1.0	0.02	-1.5	0.66	-1.1
A_51_P514319	NM_172892	Slc13a4	0.74	-1.2	0.02	-1.5	0.40	-1.2
A_30_P01032068			0.11	-1.4	0.00	-1.6	0.08	-1.3
A_51_P308844	NM_153529	Nrn1	0.00	-1.5	0.20	-1.3	0.15	-1.3
A_66_P131433			0.42	-1.3	0.21	-1.4	0.02	-1.5
A_51_P124345	NM_153166	Cpne5	1.00	-1.0	0.56	-1.2	0.04	-1.5
A_66_P115531	NM_145151	Crebzf	0.76	-1.2	0.03	-1.6	0.07	-1.5
A_55_P1988970	NM_021527	Mkks	0.69	-1.1	0.17	-1.3	0.00	-1.5
A_66_P109368	NM_029525	Prex2	0.34	-2.9	0.03	-4.6	0.71	-1.5
A_55_P1969392	NM_026594	Rpl39l	0.08	-1.4	0.02	-1.4	0.01	-1.5
A_52_P670026	NM_021384	Rsad2	0.70	-1.3	0.03	-2.1	0.32	-1.5
A_51_P348652	NM_016962	Spast	0.39	-1.2	0.00	-1.4	0.00	-1.5
A_51_P316801	NM_146039	Wdr60	0.75	-1.1	0.44	-1.2	0.01	-1.5

A_55_P2138104	AK089567		0.41	-1.2	0.18	-1.3	0.00	-1.6
A_55_P2138100			0.48	-1.3	0.26	-1.3	0.00	-1.6
A_55_P2465382	AK172117		0.50	-1.2	0.09	-1.4	0.00	-1.6
A_55_P2035320	NM_017373	Nfil3	0.71	-1.2	0.11	-1.4	0.01	-1.6
A_51_P196972	NM_011403	Slc4a1	0.81	-1.2	0.03	-2.1	0.28	-1.6
A_51_P171616	NM_009518	Wnt10a	0.29	-1.5	0.14	-1.5	0.03	-1.6
A_55_P1968304			0.66	-1.2	0.14	-1.5	0.00	-1.7
A_55_P1966508	NM_010465	Hoxc6	0.22	-1.5	0.18	-1.4	0.00	-1.7
A_55_P2080603	NM_031165	Hspa8	0.64	-1.3	0.27	-1.4	0.03	-1.7
A_66_P124164	AK089567		0.17	-1.4	0.00	-1.5	0.00	-1.8
A_55_P1996456	NM_016799	Srrm1	0.54	-1.4	0.10	-1.6	0.00	-1.9
A_55_P2003513	NM_013559	Hsph1	0.59	-1.5	0.16	-1.8	0.01	-2.2
A_55_P2176963	NM_013559	Hsph1	0.55	-1.5	0.08	-2.1	0.01	-2.3
A_55_P1953377			0.29	-2.1	0.02	-2.6	0.01	-2.7
A_55_P2131766	NM_023665	D4Wsu53e	0.17	-2.0	0.00	-2.5	0.00	-3.4

3.3.4 BkF Lung. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 25, 50, and 100 mg/kg-bw/day benzo(k)fluoranthene in the lung. The list is sorted from highest to lowest fold change in the 100 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	25 mg/kg-bw/day		50 mg/kg-bw/day		100 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_51_P279693	NM_009992	Cyp1a1	0.00	17.0	0.00	80.1	0.00	117.3
A_51_P255456	NM_009994	Cyp1b1	0.00	10.1	0.00	41.6	0.00	65.6
A_51_P254425	NM_009644	Ahr	0.00	7.9	0.00	18.3	0.00	33.9
A_55_P2004099	XM_001477458	Gm9933	1.00	2.0	0.00	4.5	0.00	6.3
A_52_P413395	NM_025540	Slc	0.26	6.3	0.03	5.8	0.01	5.8
A_51_P449824	XM_001471750	Exoc3l2	1.00	2.1	0.03	3.4	0.00	5.2
A_66_P113892	NM_001162998	1110017F19Rik	0.08	3.9	0.23	2.2	0.00	5.1
A_66_P115580	AK076360		0.00	2.8	0.00	4.9	0.00	4.9
A_51_P231320	NM_008611	Mmp8	1.00	2.2	0.00	4.6	0.00	4.8
A_66_P118600	NM_008480	Lama1	0.13	3.4	0.00	4.8	0.00	4.1
A_55_P1985890	NM_178892	Tiparp	1.00	1.4	0.04	2.0	0.00	4.1
A_51_P193185	NM_013593	Mb	0.75	3.7	0.11	3.6	0.04	3.8
A_55_P1963483	NM_030559	Vps16	1.00	1.6	0.79	1.7	0.04	3.8
A_51_P110341	NM_170727	Scgb3a1	0.19	3.8	0.30	2.3	0.04	3.4
A_55_P2032081	NM_016974	Dbp	1.00	2.2	0.16	2.3	0.00	3.4
A_51_P202331	NM_011126	Plunc	0.00	13.0	0.02	7.3	0.11	3.3
A_55_P2032079	NM_016974	Dbp	1.00	2.2	0.15	2.4	0.01	3.3
A_51_P354126	NM_011260	Reg3g	0.00	8.6	0.59	2.5	0.27	3.1
A_51_P133684	NM_013808	Csrp3	1.00	3.1	0.04	3.9	0.12	3.1
A_51_P514961	NM_178892	Tiparp	1.00	1.3	0.06	2.0	0.00	3.1
A_51_P424338	NM_008706	Nqo1	0.72	1.6	0.00	2.5	0.00	3.0
A_52_P249733	NM_011540	Tcap	0.95	2.8	0.03	3.4	0.08	2.8
A_52_P675395	NM_007722	Cxcr7	1.00	1.5	0.02	2.5	0.01	2.8
A_51_P253481	NM_021456	Ces1	1.00	1.2	0.03	2.0	0.00	2.8

A_51_P256827	NM_013650	S100a8	1.00	2.1	0.00	5.9	0.06	2.6
A_55_P2000454	XM_001478824	Tspan18	1.00	1.7	0.03	2.4	0.01	2.6
A_55_P2047155	NM_001159569	Meis2	1.00	1.3	0.77	1.3	0.00	2.6
A_51_P187750	NM_153408	Neurl3	1.00	1.9	0.00	2.8	0.02	2.5
A_55_P1978316	NM_001081127	Adamts14	1.00	1.2	0.55	1.5	0.00	2.5
A_55_P1967978	NM_001136073	Nfatc2	1.00	1.2	0.08	2.0	0.00	2.5
A_55_P2144526	NM_001080381	Fam65b	1.00	1.4	0.56	1.5	0.02	2.4
A_51_P153063	NM_029310	Fabp12	1.00	1.7	0.00	2.8	0.02	2.3
A_51_P470079	NM_010555	Il1r2	1.00	1.3	0.00	3.7	0.12	2.2
A_55_P1960238	NM_172659	Slc2a6	1.00	1.3	0.04	2.8	0.10	2.2
A_51_P401501	NM_029921	Tmem213	0.57	1.8	0.00	2.4	0.01	2.2
A_52_P667913	NM_033592	Pcdhga9	1.00	-1.1	0.91	-1.2	0.04	2.2
A_52_P322181	NM_007419	Adrb1	1.00	1.6	0.59	1.4	0.00	2.2
A_55_P2040485	XM_889011	Ms4a4a	1.00	1.5	0.00	3.6	0.20	2.1
A_55_P2038106	NM_009978	Cst8	0.22	1.9	0.00	2.4	0.00	2.1
A_51_P153995	NM_018762	Gp9	1.00	1.5	0.03	2.1	0.04	2.0
A_51_P144264	NM_008452	Klf2	0.98	1.4	0.02	1.9	0.00	2.0
A_51_P419246	NR_028427	5830416P10Rik	1.00	1.2	0.59	1.4	0.04	2.0
A_51_P498631	NM_018769	Dfna5	1.00	1.3	0.14	1.7	0.02	2.0
A_55_P2162935	NM_008744	Ntn1	1.00	1.5	0.36	1.6	0.01	2.0
A_55_P2048493	NR_027955	4931440P22Rik	1.00	1.2	0.17	1.4	0.00	2.0
A_52_P559975	NM_009909	Cxcr2	1.00	1.3	0.04	2.7	0.23	1.9
A_55_P2027083	NM_001039484	Kcnj10	1.00	1.4	0.00	2.0	0.00	1.9
A_51_P382152	NM_011171	Procr	1.00	1.2	0.03	1.9	0.00	1.9
A_51_P299805	NM_027872	Slc46a3	1.00	1.2	0.02	1.5	0.00	1.9
A_51_P256384	NM_009723	Atp2b2	1.00	1.2	0.79	1.2	0.04	1.9
A_51_P392303	NM_010733	Lrrn3	1.00	1.2	0.93	1.1	0.04	1.9
A_55_P1973770	NM_029770	Unc5b	1.00	1.6	0.59	1.4	0.03	1.9
A_51_P147123	NM_008744	Ntn1	1.00	1.2	0.70	1.3	0.02	1.9
A_55_P2128388	NM_009644	Ahrr	1.00	1.2	0.58	1.3	0.01	1.9
A_51_P290576	NM_152804	Plk2	1.00	1.3	0.61	1.3	0.01	1.9
A_55_P2148534	BC096461	Nr1d2	0.83	1.6	0.30	1.4	0.00	1.9
A_55_P2056729	NM_008342	Igfbp2	1.00	1.2	0.38	1.4	0.00	1.9
A_52_P398925	NM_173869	Stfa2l1	1.00	1.5	0.00	4.1	0.48	1.8
A_55_P1962011	NM_019985	Clec1b	1.00	1.0	0.03	1.8	0.00	1.8
A_55_P2101340	NM_019511	Ramp3	0.83	1.6	0.03	1.8	0.02	1.8
A_66_P106113	NM_023275	Rhoj	1.00	1.3	0.59	1.3	0.04	1.8
A_55_P2329923	NM_145358	Camkk2	1.00	1.2	0.66	1.3	0.01	1.8
A_66_P135391	NM_008342	Igfbp2	1.00	1.2	0.55	1.3	0.00	1.8
A_30_P01020131			1.00	1.2	0.03	3.1	0.37	1.7
A_51_P464918	NM_019453	Mefv	1.00	1.3	0.03	2.1	0.10	1.7
A_55_P1959818	NM_001168256	Tmem40	1.00	1.2	0.00	2.1	0.07	1.7
A_51_P428372	NM_023785	Ppbbp	1.00	1.1	0.04	1.9	0.10	1.7
A_55_P1966987	NM_010717	Limk1	1.00	1.2	0.02	1.5	0.00	1.7
A_55_P2057050	AK038034		1.00	1.3	0.88	1.1	0.04	1.7
A_51_P108659	NM_011134	Pon1	1.00	1.2	0.85	1.2	0.04	1.7
A_55_P1962404	NM_145079	Ugt1a6a	1.00	1.4	0.33	1.5	0.04	1.7
A_30_P01027194			1.00	1.2	0.78	1.2	0.04	1.7
A_55_P2119985	NM_130862	Baiap2	1.00	1.2	0.48	1.3	0.02	1.7

A_55_P2470474	AK087205	9530082P21Rik	1.00	1.3	0.43	1.4	0.02	1.7
A_55_P1957038	NM_181796	Gstp2	1.00	1.2	0.08	1.5	0.02	1.7
A_30_P01031348			1.00	1.1	0.99	-1.0	0.02	1.7
A_55_P2042156	NM_007377	Aatk	1.00	1.4	0.41	1.3	0.01	1.7
A_51_P254855	NM_011198	Ptgs2	1.00	1.1	0.84	1.2	0.01	1.7
A_55_P2128646	NM_020567	Gmnn	1.00	1.2	0.46	1.3	0.01	1.7
A_51_P291501	NM_001081062	Ccno	1.00	1.2	0.47	1.3	0.00	1.7
A_52_P295104	NM_183259	2210020M01Rik	0.25	1.5	0.96	1.0	0.00	1.7
A_55_P2029558	NM_007420	Adrb2	1.00	1.1	0.06	1.5	0.00	1.7
A_52_P94521	NM_001001881	2510009E07Rik	1.00	1.2	0.06	1.6	0.00	1.7
A_55_P2037343	NM_010391	H2-Q10	1.00	1.4	0.03	2.1	0.16	1.6
A_51_P212782	NM_008361	Il1b	1.00	1.5	0.03	2.0	0.25	1.6
A_55_P2034300	NM_001168256	Tmem40	1.00	1.1	0.02	1.9	0.19	1.6
A_55_P1998471	NM_009114	S100a9	1.00	1.3	0.04	1.7	0.03	1.6
A_55_P2394308	NM_008046	Fst	1.00	1.2	0.02	1.7	0.04	1.6
A_55_P1954835	XM_001475752	LOC100046186	1.00	1.5	0.00	1.7	0.05	1.6
A_55_P1970537	NM_009745	Bcl7b	1.00	-1.0	0.99	-1.0	0.04	1.6
A_51_P234728	AK032901	Lpar6	1.00	1.2	0.11	1.5	0.03	1.6
A_55_P1961014	NM_009150	Selenbp1	1.00	1.1	0.70	1.2	0.03	1.6
A_51_P465128	NM_029935	Chst15	1.00	1.3	0.88	1.1	0.03	1.6
A_55_P2006668	NM_175356	Pi4kb	1.00	1.2	0.98	-1.0	0.03	1.6
A_55_P1957835	NM_198300	Cpeb3	1.00	1.4	0.10	1.4	0.02	1.6
A_55_P2119257	NM_008871	Serpine1	1.00	1.2	0.33	1.3	0.00	1.6
A_55_P2183010	NM_001038887	P2rx7	1.00	1.1	0.10	1.4	0.00	1.6
A_66_P110798	AK145507		1.00	1.3	0.70	1.2	0.00	1.6
A_55_P1981670	NM_033144	41160.0	1.00	1.0	0.36	1.3	0.00	1.6
A_51_P240723	NR_003953	1700022A21Rik	1.00	1.2	0.93	1.1	0.00	1.6
A_51_P516133	NM_015786	Hist1h1c	1.00	1.1	0.04	1.3	0.00	1.6
A_52_P534583	NM_133245	Ahsp	1.00	1.6	0.00	2.6	0.36	1.5
A_51_P196972	NM_011403	Slc4a1	1.00	1.3	0.04	2.5	0.54	1.5
A_55_P1953003	NM_080467	Atp6v0a4	0.13	1.8	0.00	2.1	0.11	1.5
A_55_P2031999	NM_145448	9030617O03Rik	1.00	1.2	0.00	1.7	0.04	1.5
A_51_P149621	NM_024222	Stt3b	1.00	1.2	0.02	1.6	0.05	1.5
A_55_P2037528	NM_144932	Acsf3	0.79	1.5	0.02	1.5	0.05	1.5
A_51_P191893	AK163489		1.00	1.2	0.99	1.0	0.04	1.5
A_55_P1994817	NM_027427	Taf15	1.00	1.0	0.98	1.0	0.04	1.5
A_55_P1952720	NM_183285	Kctd2	1.00	1.3	0.87	1.1	0.04	1.5
A_55_P2007713	NM_053082	Tspan4	1.00	1.3	0.24	1.4	0.04	1.5
A_55_P1967069	NM_175116	Lpar6	1.00	1.2	0.27	1.4	0.03	1.5
A_55_P2183015	NM_011026	P2rx4	1.00	1.2	0.60	1.2	0.03	1.5
A_55_P2030771	NM_019406	Fnbp1	1.00	1.1	0.87	1.1	0.03	1.5
A_30_P01023888			1.00	1.2	0.79	1.2	0.03	1.5
A_51_P456465	NM_021386	Cldn10a	1.00	1.2	0.80	1.2	0.03	1.5
A_30_P01020515			1.00	1.1	0.69	1.2	0.02	1.5
A_30_P01027491			1.00	1.1	0.46	1.3	0.02	1.5
A_55_P1976351	NM_001042672	Prei4	1.00	1.1	0.94	1.0	0.02	1.5
A_66_P134707	NM_001081323	Mphosph9	1.00	1.1	0.95	1.1	0.02	1.5
A_66_P124715	NM_011145	Ppard	1.00	1.2	0.43	1.3	0.02	1.5
A_55_P2074035	NM_025325	Hao	1.00	1.3	0.85	1.1	0.02	1.5

A_55_P2104835	AK162820		1.00	1.2	0.38	1.3	0.02	1.5
A_30_P01027077			1.00	1.2	0.45	1.2	0.01	1.5
A_55_P2116650	NR_002860	A130040M12Rik	1.00	1.0	0.88	1.1	0.01	1.5
A_55_P1993609	NM_028201	2210009G21Rik	1.00	1.2	0.36	1.3	0.00	1.5
A_30_P01030038			1.00	1.0	0.97	1.0	0.00	1.5
A_55_P2121456	NM_177632	Fam43a	1.00	1.2	0.51	1.2	0.00	1.5
A_55_P2126951	NM_001085417	Zfp467	1.00	1.2	0.70	1.2	0.00	1.5
A_52_P425839	NM_181596	Retnlg	1.00	1.2	0.00	3.5	0.67	1.4
A_52_P354744	NM_011401	Slc2a3	1.00	1.1	0.00	1.6	0.00	1.4
A_55_P2165839	NM_207131	Cebpe	1.00	1.3	0.04	1.5	0.06	1.4
A_55_P2008704	NM_181796	Gstp2	1.00	1.3	0.02	1.5	0.06	1.4
A_55_P1981804	NM_010326	Gp1ba	1.00	1.2	0.02	1.6	0.17	1.3
A_51_P374464	NM_013541	Gstp1	1.00	1.2	0.03	1.5	0.08	1.3
A_55_P2031668	NM_013541	Gstp1	1.00	1.3	0.02	1.5	0.11	1.3
A_52_P541161	NM_022881	Rgs18	1.00	1.0	0.02	2.0	0.69	1.2
A_51_P469008	NM_010119	Ehd1	1.00	1.1	0.04	1.5	0.41	1.2
A_55_P2055854	NM_011144	Ppara	1.00	1.1	0.04	1.5	0.33	1.2
A_55_P2019690	NM_001081349	Slc43a1	1.00	1.1	0.00	1.5	0.52	1.2
A_52_P54261	NM_178936	Tmem56	0.19	1.5	0.00	1.5	0.28	1.2
A_51_P113906	NM_025467	Gkn2	0.00	8.8	0.90	1.3	0.97	1.1
A_55_P1996973	NM_029000	Gvin1	1.00	-1.0	0.03	2.1	0.90	1.1
A_30_P01026045			1.00	1.1	0.03	1.5	0.86	1.1
A_55_P2021585	NM_009362	Tff1	0.00	5.8	0.81	1.4	0.99	1.0
A_55_P1973362	NM_010603	Kcnj12	1.00	1.1	0.04	1.5	0.93	-1.0
A_55_P2112005	NM_009362	Tff1	0.00	7.9	0.72	1.6	0.94	-1.1
A_55_P1984745	NM_001085376	Pappa2	1.00	-1.3	0.04	-1.7	0.72	-1.2
A_55_P1989076	NM_001033167	Slc22a23	1.00	-1.1	0.04	-1.5	0.18	-1.3
A_55_P2087414	NM_011348	Sema3e	1.00	-1.0	0.03	-1.5	0.31	-1.3
A_55_P2156425	NM_026815	Upk1a	1.00	-1.2	0.03	-1.5	0.13	-1.3
A_52_P186033	NM_009259	Spn	1.00	-1.2	0.04	-1.6	0.42	-1.3
A_52_P223508	NR_026976	6720401G13Rik	1.00	-1.4	0.03	-1.6	0.32	-1.3
A_51_P319460	NM_011019	Osmr	1.00	-1.2	0.03	-1.6	0.21	-1.3
A_66_P103027	NM_172732	Clec9a	0.32	-1.6	0.03	-1.5	0.06	-1.4
A_55_P2038358	NM_012006	Acot1	1.00	-1.2	0.02	-1.6	0.14	-1.4
A_51_P243514	NM_001163136	Macc1	1.00	-1.1	0.00	-1.6	0.05	-1.4
A_52_P22763	NM_001039934	Mtap2	0.42	-1.4	0.00	-1.7	0.00	-1.4
A_51_P161054	NM_021359	Itgb6	1.00	-1.1	0.04	-1.8	0.46	-1.4
A_51_P509679	XM_001474025		1.00	-1.4	0.04	-1.9	0.42	-1.4
A_55_P1983858	NM_022886	Scel	1.00	-1.3	0.00	-2.0	0.17	-1.4
A_55_P2120551	XM_001474125	9930104M19Rik	1.00	-1.3	0.05	-1.5	0.02	-1.5
A_55_P1960097	NM_013813	Epb4.1l3	1.00	-1.2	0.04	-1.5	0.02	-1.5
A_55_P2175245	NM_030254	Tusc3	1.00	-1.2	0.00	-1.5	0.00	-1.5
A_55_P2170350	NM_053152	Klra22	0.43	-1.4	0.02	-1.6	0.04	-1.5
A_55_P1965101	NM_001081643	Xlr3b	0.59	-1.6	0.02	-1.6	0.05	-1.5
A_55_P2009988	NM_175093	Trib3	1.00	-1.1	0.00	-1.6	0.04	-1.5
A_55_P1978681	NM_146010	Tspan8	1.00	-1.2	0.00	-1.7	0.03	-1.5
A_55_P2125613	NM_001101486	Fam71f2	1.00	-1.2	0.00	-1.9	0.06	-1.5
A_55_P2042973	XM_001473782	1010001N08Rik	1.00	-1.1	0.58	-1.2	0.04	-1.5
A_51_P108020	NM_001029929	Zmynd15	1.00	-1.3	0.11	-1.5	0.04	-1.5

A_55_P2069926	NM_009268	Muc11	1.00	-1.2	0.11	-1.4	0.04	-1.5
A_51_P257762	NM_020005	Kat2b	1.00	-1.2	0.66	-1.2	0.04	-1.5
A_55_P2095047	NM_145569	Mat2a	1.00	-1.1	0.74	-1.2	0.04	-1.5
A_51_P496054	NM_080855	Zcchc14	1.00	-1.1	0.81	-1.2	0.04	-1.5
A_52_P650180	NM_145469	Nipal2	1.00	-1.2	0.85	-1.1	0.04	-1.5
A_51_P300434	NM_134448	Dst	1.00	-1.2	0.69	-1.2	0.03	-1.5
A_55_P2216976	AK143258	D13Ertd608e	1.00	-1.0	0.07	-1.5	0.03	-1.5
A_55_P2102951			1.00	-1.0	0.56	-1.3	0.02	-1.5
A_55_P2178664			1.00	-1.0	0.71	-1.2	0.02	-1.5
A_30_P01025757			1.00	-1.2	0.49	-1.2	0.01	-1.5
A_51_P114297	NM_010631	Kifc3	1.00	1.0	0.89	-1.1	0.01	-1.5
A_55_P2016114	NM_010177	Fasl	0.91	-1.3	0.03	-1.4	0.00	-1.5
A_30_P01021461			1.00	-1.2	0.49	-1.2	0.00	-1.5
A_30_P01029537			1.00	-1.3	0.58	-1.2	0.00	-1.5
A_55_P1999364	NM_016879	Krt85	0.90	-1.4	0.15	-1.3	0.00	-1.5
A_65_P10913	NM_009367	Tgfb2	1.00	-1.2	0.35	-1.3	0.00	-1.5
A_55_P2189201	AK020017	5830426C09Rik	1.00	-1.2	0.43	-1.2	0.00	-1.5
A_55_P2022332	XM_916590	Klra27	1.00	-1.2	0.10	-1.2	0.00	-1.5
A_55_P2040888	NM_001042620	Dhx15	1.00	-1.1	0.76	-1.2	0.00	-1.5
A_30_P01024768			1.00	-1.3	0.05	-1.5	0.01	-1.6
A_55_P2338200	NM_153803	Glb1l2	0.80	-1.4	0.00	-1.7	0.00	-1.6
A_51_P111612	NM_001042592	Arrdc4	1.00	-1.3	0.02	-1.8	0.03	-1.6
A_55_P1988844	NM_016970	Klrg1	1.00	-1.5	0.23	-1.5	0.04	-1.6
A_55_P2214124	BC019425		1.00	-1.3	0.61	-1.3	0.04	-1.6
A_52_P484956	NM_010923	Nnat	1.00	-1.2	0.06	-1.7	0.04	-1.6
A_30_P01032827			1.00	-1.0	0.88	-1.1	0.04	-1.6
A_52_P78373	NM_011366	Sorbs3	1.00	-1.0	0.96	-1.0	0.04	-1.6
A_30_P01030198			1.00	-1.4	0.11	-1.5	0.04	-1.6
A_55_P2092492	NM_001161842	Il18r1	1.00	-1.1	0.37	-1.4	0.04	-1.6
A_55_P1980426	NM_010923	Nnat	1.00	-1.4	0.12	-1.5	0.03	-1.6
A_51_P344249	NM_009685	Apbb1	1.00	-1.1	0.48	-1.3	0.03	-1.6
A_51_P338397	NM_026145	Kctd10	1.00	-1.2	0.30	-1.4	0.03	-1.6
A_55_P1986551	NM_023061	Mcam	1.00	1.1	0.87	-1.1	0.03	-1.6
A_51_P268094	NM_009255	Serpine2	1.00	-1.2	0.33	-1.3	0.02	-1.6
A_55_P2096226	NM_010729	Loxl1	1.00	1.0	0.48	-1.3	0.02	-1.6
A_65_P05152	NM_201518	Flrt2	1.00	-1.1	0.99	1.0	0.02	-1.6
A_52_P22590	NM_001024720	Hmcn1	1.00	-1.0	0.45	-1.3	0.02	-1.6
A_55_P2071716	NM_153590	Klre1	1.00	-1.1	0.25	-1.3	0.02	-1.6
A_52_P72237	NM_009609	Actg1	1.00	-1.1	0.80	-1.2	0.01	-1.6
A_51_P235878	NM_008193	Guk1	1.00	-1.1	0.43	-1.3	0.01	-1.6
A_51_P153170	NM_029787	Cyb5r3	1.00	-1.1	0.46	-1.3	0.01	-1.6
A_51_P403273	NM_025816	Tax1bp1	1.00	-1.2	0.04	-1.3	0.00	-1.6
A_30_P01028065			1.00	-1.1	0.00	-1.4	0.00	-1.6
A_30_P01022383			1.00	-1.2	0.04	-1.4	0.00	-1.6
A_52_P650387	NM_001045530	Ccnjl	1.00	-1.2	0.00	-1.7	0.00	-1.7
A_51_P505617	NM_008365	Il18r1	1.00	-1.3	0.02	-1.8	0.03	-1.7
A_51_P477121	NM_021451	Pmaip1	0.91	-1.5	0.00	-1.8	0.01	-1.7
A_55_P1961968	NM_009538	Plagl1	1.00	-1.2	0.04	-2.0	0.08	-1.7
A_52_P257625	NM_023612	Esm1	1.00	-1.6	0.00	-2.8	0.11	-1.7

A_51_P286034	NM_134033	Ccdc117	1.00	-1.1	0.89	-1.1	0.04	-1.7
A_66_P136064	XM_001479876	LOC100048139	1.00	-1.4	0.49	-1.4	0.04	-1.7
A_51_P389531	NM_019830	Prmt1	1.00	-1.1	0.88	-1.1	0.04	-1.7
A_55_P2089820	NM_134079	Adk	1.00	-1.4	0.11	-1.6	0.04	-1.7
A_55_P1957424	NM_172294	Sulf1	1.00	-1.1	0.98	1.0	0.04	-1.7
A_52_P481423	NM_030249	Cttnbp2nl	1.00	-1.1	0.92	-1.1	0.04	-1.7
A_51_P319070	NM_026159	Retsat	1.00	-1.1	0.84	-1.2	0.04	-1.7
A_52_P227937	BC028765		1.00	-1.2	0.44	-1.4	0.04	-1.7
A_55_P2123673	NM_001081156	Trnp1	0.49	-1.7	0.20	-1.5	0.03	-1.7
A_51_P332201	NM_009976	Cst3	1.00	-1.2	0.73	-1.2	0.02	-1.7
A_51_P466229	NM_026840	Pdgfrl	1.00	-1.2	0.06	-1.6	0.02	-1.7
A_51_P490023	NM_009450	Tubb2a	1.00	-1.2	0.41	-1.3	0.02	-1.7
A_51_P475342	NM_009601	Chrnbl	1.00	-1.3	0.43	-1.3	0.01	-1.7
A_55_P1977498	NM_008311	Htr2b	1.00	-1.4	0.17	-1.5	0.01	-1.7
A_51_P500882	NM_010746	Ncr1	0.72	-1.5	0.09	-1.5	0.00	-1.7
A_55_P1963463	NM_008067	Gabra3	1.00	-1.0	0.88	-1.1	0.00	-1.7
A_52_P340073	NM_010111	Efnb2	1.00	-1.3	0.05	-1.7	0.00	-1.8
A_51_P333274	NM_013542	Gzmb	0.08	-1.8	0.02	-1.7	0.00	-1.8
A_55_P2129469	XM_918544	LOC641199	0.08	-2.0	0.00	-1.8	0.00	-1.8
A_51_P145662	NM_029465	Clec4g	1.00	-1.6	0.03	-1.9	0.01	-1.8
A_52_P381484	NM_133903	Spon2	1.00	-1.1	0.04	-2.3	0.17	-1.8
A_51_P372456	NM_001081441	Wdr86	1.00	-1.2	0.88	-1.1	0.04	-1.8
A_55_P1957433	NM_201245	Mprlp	1.00	-1.2	0.46	-1.4	0.04	-1.8
A_55_P2170105			1.00	-1.1	0.70	-1.3	0.04	-1.8
A_55_P2168023	NM_001025379	Sema3g	1.00	-1.1	0.34	-1.5	0.03	-1.8
A_55_P2056325	NM_013470	Anxa3	1.00	-1.2	0.74	-1.3	0.03	-1.8
A_52_P114905	BC049666		1.00	-1.0	0.93	-1.1	0.03	-1.8
A_55_P1985984	NM_009609	Actg1	1.00	-1.1	0.91	-1.1	0.02	-1.8
A_55_P2266178	BC028446	Al790276	0.97	-1.5	0.07	-1.7	0.01	-1.8
A_51_P283473	NM_026271	Fibin	1.00	-1.5	0.18	-1.5	0.01	-1.8
A_30_P01027974			1.00	-1.3	0.73	-1.3	0.01	-1.8
A_55_P2047809	NM_175692	Snhg11	1.00	-1.3	0.49	-1.3	0.00	-1.8
A_55_P1974522	NM_175688	A530099J19Rik	0.19	-1.7	0.02	-1.6	0.00	-1.9
A_55_P2178137	NM_011889	41155.0	0.13	-1.7	0.02	-1.7	0.00	-1.9
A_55_P2004541	NM_001110323	Klra7	0.08	-1.7	0.00	-1.9	0.00	-1.9
A_55_P2036547	NM_153193	Hsd3b2	1.00	-1.3	0.05	-2.0	0.04	-1.9
A_52_P532456	NM_009538	Plagl1	1.00	-1.2	0.02	-2.1	0.03	-1.9
A_55_P2155848	NR_030683	Gm14207	1.00	-1.3	0.00	-2.1	0.00	-1.9
A_55_P2058783	NM_023516	2310016C08Rik	1.00	-1.1	0.00	-2.7	0.03	-1.9
A_51_P505868	NM_175386	Lhfp	1.00	-1.1	0.61	-1.4	0.04	-1.9
A_51_P444137	NM_001143765	Syce1	1.00	-1.5	0.33	-1.5	0.02	-1.9
A_55_P1965030	NM_001003915	Slc5a12	0.00	-1.8	0.00	-1.9	0.00	-2.0
A_55_P2004527	NM_010650	Klra8	1.00	-1.6	0.03	-1.9	0.00	-2.0
A_55_P2058023	U18569		1.00	-1.4	0.05	-2.0	0.03	-2.0
A_55_P2165790	NM_178706	Siglech	0.83	-1.7	0.00	-2.1	0.00	-2.0
A_55_P2151638	NM_013793	Klra15	0.78	-1.7	0.00	-2.2	0.01	-2.0
A_55_P2063465	NM_013691	Thbs3	1.00	-1.4	0.00	-2.4	0.07	-2.0
A_51_P439085	NM_023516	2310016C08Rik	1.00	-1.1	0.02	-2.6	0.04	-2.0
A_52_P308875	AK049998		1.00	-1.3	0.59	-1.4	0.04	-2.0

A_66_P107790	NM_026064	2900073G15Rik	1.00	-1.2	0.58	-1.4	0.04	-2.0
A_55_P1959763	NM_007826	Dach1	1.00	1.1	0.27	-1.7	0.03	-2.0
A_55_P2063312	NM_001166250	Mgll	1.00	-1.1	0.59	-1.4	0.03	-2.0
A_51_P477682	NM_008939	Prss12	1.00	-1.2	0.55	-1.5	0.02	-2.0
A_55_P2408588	NM_007489	Arntl	1.00	-1.4	0.30	-1.6	0.02	-2.0
A_55_P2136657	NM_013691	Thbs3	1.00	-1.4	0.00	-2.7	0.06	-2.1
A_52_P544043	NM_001163144	Pcsk5	1.00	-1.2	0.13	-1.5	0.00	-2.1
A_65_P07627	NM_007826	Dach1	1.00	-1.1	0.05	-1.7	0.00	-2.2
A_55_P2004526	NM_010650	Klra8	0.52	-1.9	0.00	-2.0	0.00	-2.2
A_55_P2403769	BB498095	Al481121	0.61	-1.7	0.00	-2.1	0.00	-2.2
A_55_P2126363	NM_011718	Wnt10b	1.00	-1.5	0.00	-2.4	0.00	-2.2
A_55_P2075070	NM_053190	S1pr5	0.61	-1.9	0.25	-1.6	0.01	-2.2
A_52_P514407	NM_013793	Klra15	0.26	-1.9	0.00	-2.3	0.02	-2.3
A_55_P2004536	NM_010649	Klra4	0.17	-2.0	0.00	-2.5	0.00	-2.3
A_51_P208931	NM_145974	C330016O10Rik	1.00	-1.0	0.24	-1.8	0.02	-2.3
A_55_P1969477	NM_011076	Abcb1a	1.00	-1.2	0.67	-1.4	0.01	-2.3
A_52_P139413	NM_001100462	Tmem221	1.00	-1.2	0.07	-1.7	0.00	-2.3
A_66_P118093	XM_001480420	LOC100048617	1.00	-1.4	0.00	-2.3	0.00	-2.4
A_51_P346641	BC025879		0.80	-1.7	0.00	-2.3	0.00	-2.4
A_52_P58145	NM_009022	Aldh1a2	1.00	1.1	0.98	1.0	0.03	-2.4
A_51_P267933	NM_175692	Snhg11	1.00	-1.5	0.38	-1.7	0.01	-2.4
A_51_P116651	NM_019759	Dpt	1.00	-1.2	0.90	-1.2	0.01	-2.4
A_55_P2028734	NM_013794	Klra16	0.08	-2.5	0.00	-3.0	0.00	-2.5
A_55_P1993404			1.00	-1.5	0.63	-1.6	0.04	-2.5
A_52_P566681	NM_153581	Gpm6a	1.00	-1.1	0.85	-1.3	0.03	-2.5
A_52_P638459	NM_013653	Ccl5	0.84	-2.0	0.02	-3.0	0.02	-2.7
A_55_P2135967	XM_979793	Gm7816	1.00	-1.7	0.50	-1.8	0.04	-2.7
A_55_P2087984	NM_001164671	Dnaja1	1.00	-1.7	0.46	-1.8	0.02	-2.7
A_55_P2170349	NM_053152	Klra22	0.00	-2.6	0.00	-3.0	0.00	-2.8
A_51_P175424	NM_011797	Car14	0.17	-2.4	0.00	-2.5	0.00	-3.4
A_51_P356055	NM_175012	Grp	0.00	-2.9	0.00	-3.6	0.00	-3.7
A_55_P2094060	NM_010370	Gzma	0.17	-4.4	0.00	-5.1	0.00	-4.2
A_55_P2011341	XM_001474162	LOC100045268	0.08	-4.2	0.00	-5.1	0.01	-4.7
A_55_P2068459	NM_010479	Hspa1a	1.00	-2.3	0.46	-2.2	0.00	-5.9

3.3.5 Chr Lung. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 17.5, 50, and 150 mg/kg-bw/day chrysene in the lung. The list is sorted from highest to lowest fold change in the 150 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	17.5 mg/kg-bw/day		50 mg/kg-bw/day		150 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_51_P246854	NM_009606	Acta1	0.99	-1.2	0.99	2.5	0.04	15.2
A_55_P2152472	NM_001039594	Lce3a	0.99	-1.2	1.00	1.2	0.03	13.7
A_51_P353232	NM_009394	Tnnc2	0.98	-1.3	1.00	1.1	0.02	11.0
A_55_P2006296	NM_010662	Krt13	0.99	-1.2	1.00	1.1	0.02	10.9
A_51_P461040	NM_028798	Crc1	0.99	-1.2	1.00	1.2	0.03	10.7

A_51_P430423	NM_007398	Ada	0.99	-1.2	1.00	1.0	0.04	9.7
A_55_P2147280	NM_030679	Myh1	0.99	-1.1	1.00	1.3	0.02	9.4
A_55_P2142226	NM_001034870	Serpina3h	0.10	6.8	1.00	1.7	0.00	9.1
A_55_P2067342	XM_001478579	Gm9782	0.99	-1.2	1.00	1.2	0.04	8.8
A_51_P319180	NM_008475	Krt4	0.99	-1.1	1.00	1.2	0.03	8.6
A_51_P373393	NM_033175	Lce3c	0.99	-1.2	1.00	1.2	0.04	8.5
A_55_P2088375	NM_001163664	Tnnt3	0.99	-1.1	1.00	1.2	0.02	8.5
A_51_P499698	NM_026414	Asprv1	0.99	-1.2	1.00	1.2	0.02	8.4
A_66_P101930	NM_025501	Lce3b	0.99	-1.2	1.00	1.3	0.03	8.1
A_51_P495269	NM_008508	Lor	0.99	-1.1	1.00	1.3	0.03	7.9
A_52_P576720	NM_020036	Calm4	0.99	-1.2	1.00	1.1	0.04	7.7
A_51_P100997	NM_201363	Serpinb3c	0.99	-1.2	1.00	1.1	0.03	7.6
A_55_P1957733	NM_026415	2310002J15Rik	0.99	-1.2	1.00	1.1	0.04	7.5
A_52_P656699	NM_013456	Actn3	0.99	-1.1	1.00	1.3	0.03	7.4
A_52_P573336	NM_172205	Sbsn	0.98	1.3	1.00	1.6	0.00	6.9
A_30_P01021588			0.99	-1.2	1.00	1.0	0.04	6.5
A_51_P338072	NM_010855	Myh4	0.98	-1.2	1.00	1.1	0.04	6.4
A_55_P2165299	NM_175418	Mybpc1	1.00	-1.1	1.00	1.2	0.04	6.2
A_51_P379750	NM_021508	Myoz1	0.99	-1.2	1.00	1.2	0.04	6.1
A_51_P414208	NM_028622	Lce1c	0.99	-1.1	1.00	1.2	0.04	5.8
A_55_P1994418	NM_025634	2310042E22Rik	0.99	-1.2	1.00	1.1	0.04	5.5
A_55_P2135095	NM_028622	Lce1c	0.99	-1.2	1.00	1.2	0.04	5.5
A_66_P111426	NM_028625	Lce1a2	0.99	-1.1	1.00	1.3	0.03	5.4
A_51_P345699	NM_011620	Tnnt3	0.99	-1.2	1.00	1.2	0.04	5.2
A_51_P187602	NM_009257	Serpinb5	0.99	-1.1	1.00	1.1	0.03	5.0
A_52_P252180	NM_025984	Lce1a1	0.99	-1.2	1.00	1.1	0.04	4.9
A_52_P391110	NM_009109	Ryr1	1.00	-1.0	1.00	1.3	0.03	4.9
A_55_P2116978	NM_010889	Neb	1.00	-1.0	1.00	1.3	0.04	4.5
A_55_P2165414	NM_009243	Serpina1a	0.17	3.9	0.99	1.6	0.01	4.5
A_30_P01032042			1.00	-1.0	1.00	1.3	0.01	4.5
A_55_P2414524	AK003290	1110002E22Rik	0.99	-1.1	1.00	1.3	0.04	4.4
A_55_P2010301	NM_009245	Serpina1c	0.00	3.4	0.99	1.4	0.00	4.1
A_55_P1972034	XM_001476091	Muc16	0.63	2.3	0.80	3.6	0.03	4.1
A_55_P2046709			0.10	3.4	1.00	1.3	0.02	4.0
A_30_P01020116			1.00	-1.0	1.00	1.2	0.04	3.8
A_55_P1953143	NM_144783	Wt1	0.53	2.3	0.85	2.9	0.02	3.8
A_55_P2113857	NM_009247	Serpina1e	0.00	3.3	0.99	1.4	0.00	3.5
A_51_P210286	NM_007582	Cacng1	0.99	-1.1	1.00	1.2	0.04	3.5
A_52_P592909	NM_026384	Dgat2	0.97	-1.2	0.97	2.0	0.04	3.4
A_52_P460836	NM_177303	Lrrn4	0.54	2.2	0.79	3.2	0.04	3.3
A_51_P520849	NM_009144	Sfrp2	0.70	1.9	0.87	2.7	0.03	3.1
A_51_P390937	XM_984731	LOC675735	0.98	1.2	1.00	1.3	0.02	3.1
A_55_P2010298	NM_009246	Serpina1d	0.22	2.4	1.00	1.2	0.01	2.9
A_55_P1966774	XM_893705	Gm6930	0.29	2.6	1.00	1.0	0.04	2.8
A_55_P2010292	NM_009247	Serpina1e	0.29	2.0	1.00	1.2	0.02	2.7
A_66_P118124	NM_008557	Fxyd3	0.80	1.5	0.95	1.8	0.01	2.7
A_55_P2034067	NM_001085509	Myom3	1.00	-1.0	1.00	1.1	0.04	2.6
A_55_P2010066	NM_007601	Capn3	0.99	-1.1	1.00	1.2	0.03	2.6
A_55_P1993153	NM_024230	Smtnl1	1.00	-1.0	1.00	1.0	0.04	2.5

A_55_P1952915	NM_015825	Sh3bgr	0.99	1.1	1.00	1.1	0.04	2.5
A_55_P2276221	U76382	Gm5222	0.97	1.1	1.00	1.3	0.01	2.5
A_55_P2010312	NM_009243	Serpina1a	0.25	2.1	1.00	1.2	0.04	2.3
A_51_P485421	AK088666		0.99	1.1	1.00	1.1	0.03	2.3
A_55_P2107785	XM_001475876	Gm13105	0.82	1.5	0.88	2.0	0.04	2.2
A_55_P2179341	X63811		0.90	1.3	0.98	1.5	0.03	2.2
A_51_P188271	NM_054042	Cd248	0.95	1.2	0.97	1.5	0.02	2.2
A_55_P1953003	NM_080467	Atp6v0a4	0.97	1.1	0.94	1.6	0.00	2.2
A_51_P368210	NM_145981	Phyhip	0.99	1.1	1.00	-1.0	0.04	2.1
A_55_P2186978	U19317		0.95	1.2	0.97	1.5	0.04	2.1
A_66_P121117	NM_009246	Serpina1d	0.28	1.8	1.00	1.2	0.02	2.1
A_55_P2113703	NM_019866	Spib	0.95	1.2	1.00	1.1	0.02	2.1
A_55_P1957424	NM_172294	Sulf1	0.55	1.5	0.82	1.8	0.02	2.1
A_51_P412914	NM_010112	Efs	0.88	1.3	0.92	1.5	0.00	2.1
A_51_P110672	NM_009074	Mst1r	0.68	1.4	0.94	1.5	0.03	2.0
A_66_P101477	NM_031368	Bglap-rs1	1.00	1.0	1.00	1.1	0.03	2.0
A_51_P405397	NM_007899	Ecm1	0.95	1.2	1.00	1.2	0.03	2.0
A_52_P537545	NM_021491	Smpd3	0.95	1.2	0.99	1.3	0.04	1.9
A_51_P239766	NM_019676	Plcd1	0.95	1.2	0.99	1.3	0.03	1.9
A_55_P2130501	XM_001472813	LOC100044727	0.99	1.0	1.00	1.1	0.02	1.9
A_55_P2117119	NM_028889	Efh1	0.28	1.7	0.97	1.4	0.02	1.9
A_51_P408649	NM_145463	Shisa2	0.91	1.2	0.88	1.4	0.00	1.9
A_55_P2002903	NM_022315	Smoc2	0.82	1.3	0.99	1.3	0.04	1.8
A_55_P2107155	NM_029182	Rasd2	0.91	1.2	0.99	1.3	0.04	1.8
A_51_P407323	NM_007976	F5	0.99	1.1	0.98	1.4	0.04	1.8
A_55_P2043430	AF144972		0.97	1.1	0.99	1.3	0.04	1.8
A_51_P483576	AF138742		0.98	1.1	1.00	1.1	0.03	1.8
A_55_P2262593	AK142388	4930429F24Rik	0.94	1.2	0.99	1.3	0.03	1.8
A_52_P313217	NM_001081342	Gpr133	0.95	1.1	0.97	1.3	0.04	1.7
A_51_P513776	XM_918237	LOC640979	0.97	1.1	1.00	-1.1	0.04	1.7
A_51_P507801	NM_028784	F13a1	1.00	-1.0	0.95	1.4	0.04	1.7
A_55_P2122830	NM_009549	Zfp185	0.89	1.2	0.94	1.4	0.03	1.7
A_55_P2087429	XM_001477552	LOC100047162	1.00	1.0	1.00	1.1	0.03	1.7
A_52_P531175	NM_013902	Fkbp3	0.97	1.1	0.99	1.2	0.03	1.7
A_51_P104768	XM_001476673	Igg2a	0.99	1.0	0.99	1.2	0.03	1.7
A_55_P2163363	XM_001480288	Clec2f	0.97	1.1	0.99	1.2	0.02	1.7
A_52_P267824	NM_197999	2210023G05Rik	1.00	1.0	1.00	1.1	0.01	1.7
A_55_P2104761			0.97	-1.1	1.00	-1.0	0.01	1.7
A_51_P426276	AF267660	Pdk2	0.90	1.2	1.00	1.2	0.04	1.6
A_55_P2102335	NM_033327	Zfp423	1.00	-1.0	1.00	1.2	0.04	1.6
A_55_P2162204	NM_146188	Kctd15	0.96	1.1	0.99	1.2	0.04	1.6
A_66_P113868	NM_007665	Cdh3	0.89	1.2	0.97	1.3	0.04	1.6
A_66_P105175	NM_009738	Bche	0.93	1.2	0.99	1.3	0.04	1.6
A_55_P1963463	NM_008067	Gabra3	0.89	1.2	0.87	1.5	0.03	1.6
A_55_P1966690	NM_021282	Cyp2e1	0.99	1.0	0.94	1.4	0.03	1.6
A_52_P314129	NM_008862	Pkia	0.94	1.1	0.99	1.2	0.02	1.6
A_51_P407657	U37911		0.92	1.1	1.00	1.1	0.02	1.6
A_55_P2112185	NM_173390	Nhs1	0.95	1.1	0.89	1.4	0.04	1.5
A_55_P1959500	NM_172759	Ces5	0.99	1.0	1.00	1.0	0.04	1.5

A_55_P2124228	NM_028283	Uaca	0.94	1.1	1.00	1.1	0.04	1.5
A_30_P01017728			1.00	1.0	1.00	1.1	0.04	1.5
A_55_P2155620	NM_025282	Mef2c	0.96	1.1	0.99	1.2	0.02	1.5
A_55_P1968841			0.87	-1.2	1.00	-1.0	0.02	1.5
A_55_P2031979	NM_010656	Sspn	0.93	1.1	0.92	1.3	0.01	1.5
A_55_P1961099	NM_175029	Atg4c	0.98	1.0	0.77	1.4	0.00	1.5
A_55_P1989524	NM_001081416	Fndc1	0.78	1.1	1.00	1.1	0.00	1.5
A_55_P2367415	AK035805	A630026N12Rik	0.00	1.5	0.89	1.2	0.20	1.2
A_30_P01018165			0.00	-1.6	0.86	-1.4	0.12	-1.3
A_51_P123625	NM_008392	Irg1	0.66	-1.3	0.88	-1.4	0.04	-1.5
A_55_P2158962	NM_178118	Dixdc1	0.92	-1.1	0.99	-1.1	0.04	-1.5
A_66_P134690	NM_146043	Spin1	0.99	-1.0	0.99	-1.2	0.04	-1.5
A_55_P2161219	NM_001164805	Thsd7a	0.87	-1.2	0.94	-1.3	0.04	-1.5
A_55_P2125006	NM_026181	Gpatch1	0.83	-1.2	0.99	-1.2	0.04	-1.5
A_51_P416509	NM_030609	Hist1h1a	0.18	-1.5	0.68	-1.6	0.04	-1.5
A_55_P2039038	NM_001081750	Zfp664	0.94	-1.1	0.99	-1.2	0.04	-1.5
A_30_P01031631			0.85	-1.2	0.99	-1.2	0.04	-1.5
A_51_P388478	NM_010110	Efnb1	0.78	-1.2	0.92	-1.3	0.04	-1.5
A_55_P1963980	NM_026825	Lrrc16a	0.77	-1.2	0.92	-1.3	0.04	-1.5
A_55_P2085335	NM_019394	Mia1	0.82	-1.2	0.96	-1.3	0.04	-1.5
A_51_P464822	NM_015787	Hist1h1e	0.56	-1.3	0.86	-1.5	0.04	-1.5
A_30_P01021019			0.99	-1.0	0.99	-1.1	0.04	-1.5
A_30_P01024724			0.86	-1.2	0.68	-1.6	0.03	-1.5
A_51_P485458	NM_001005506	Txlna	0.96	-1.1	0.98	-1.2	0.03	-1.5
A_51_P144500	NM_016667	Sntb1	0.98	-1.1	0.99	-1.2	0.03	-1.5
A_51_P477364	NM_007483	Rhob	0.93	-1.1	0.89	-1.4	0.03	-1.5
A_30_P01028666			0.94	-1.1	0.95	-1.3	0.02	-1.5
A_55_P2063251	NM_028207	Dusp3	0.86	-1.2	1.00	-1.1	0.02	-1.5
A_55_P2171897	NM_008714	Notch1	0.78	-1.2	0.99	-1.1	0.02	-1.5
A_30_P01020476			0.53	-1.3	0.89	-1.4	0.02	-1.5
A_55_P2077866	NM_010918	Nktr	0.62	-1.3	0.95	-1.3	0.02	-1.5
A_52_P393306	NM_009222	Snap23	0.87	-1.2	0.97	-1.2	0.02	-1.5
A_51_P295192	NM_010907	Nfkb1a	0.73	-1.2	0.94	-1.3	0.02	-1.5
A_55_P2076418	NM_001110327	Dmtf1	0.58	-1.3	0.92	-1.3	0.02	-1.5
A_55_P2037618	NM_001163502	C130039O16Rik	0.95	-1.1	0.97	-1.2	0.01	-1.5
A_30_P01020298			0.25	-1.3	0.79	-1.3	0.01	-1.5
A_51_P303424	NM_021334	Itgax	1.00	1.0	0.89	-1.3	0.01	-1.5
A_55_P2107207	AK009736		0.87	-1.1	0.80	-1.3	0.01	-1.5
A_30_P01022751			0.36	-1.3	0.79	-1.4	0.01	-1.5
A_55_P2072315	AK133410		0.43	-1.3	0.75	-1.5	0.01	-1.5
A_55_P2010321	AK146791		0.42	-1.3	0.99	-1.2	0.01	-1.5
A_55_P1955733	XM_001477303		0.42	-1.2	0.68	-1.4	0.01	-1.5
A_51_P161354	NM_144907	Sesn2	0.99	-1.0	0.99	-1.2	0.01	-1.5
A_30_P01020570			0.76	-1.2	0.90	-1.3	0.01	-1.5
A_30_P01028277			0.22	-1.3	0.77	-1.4	0.00	-1.5
A_55_P2134690	NM_001081112	Ankrd26	0.60	-1.2	0.90	-1.3	0.00	-1.5
A_30_P01022987			0.59	-1.2	0.68	-1.5	0.00	-1.5
A_55_P1987409	NM_173444	Nbeal1	0.92	-1.1	0.99	-1.2	0.00	-1.5
A_52_P180373	NM_010821	Mpeg1	0.95	-1.1	0.87	-1.3	0.00	-1.5

A_55_P2126627	NM_001081409	Phf2011	0.89	-1.1	0.93	-1.3	0.00	-1.5
A_30_P01017999			0.28	-1.3	0.79	-1.3	0.00	-1.5
A_66_P118165	XM_001471574	LOC100038935	0.80	-1.1	0.68	-1.4	0.00	-1.5
A_55_P2158522	NM_183355	Pbx1	0.30	-1.3	0.81	-1.3	0.00	-1.5
A_55_P2193064	AK142114	6720473M08Rik	0.92	-1.1	0.89	-1.2	0.00	-1.5
A_30_P01028970			0.29	-1.2	0.77	-1.3	0.00	-1.5
A_55_P2021923	AB241120		0.48	-1.2	0.86	-1.3	0.00	-1.5
A_30_P01031585			0.85	-1.2	0.98	-1.2	0.00	-1.5
A_55_P2048660	XM_908118	LOC633654	0.22	-1.3	0.68	-1.4	0.00	-1.5
A_52_P311031	AK016943		0.58	-1.3	0.87	-1.4	0.00	-1.5
A_55_P1988260	XM_001479382	LOC100048847	0.29	-1.3	0.79	-1.3	0.00	-1.5
A_55_P2377156	BG076663	AA408251	0.69	-1.2	0.99	-1.1	0.00	-1.5
A_55_P2162472			0.25	-1.3	0.68	-1.4	0.00	-1.5
A_51_P444447	NM_007679	Cebpd	0.68	-1.3	0.90	-1.4	0.04	-1.6
A_55_P2081388	NM_008575	Mdm4	0.72	-1.3	0.83	-1.5	0.04	-1.6
A_55_P1960735	NM_011819	Gdf15	0.86	-1.2	0.90	-1.4	0.04	-1.6
A_30_P01019885			0.91	-1.2	0.92	-1.4	0.04	-1.6
A_55_P1953489	NM_001033550	Lrrc8b	0.86	-1.2	0.98	-1.3	0.04	-1.6
A_52_P351816	NM_010578	Itgb1	0.94	-1.1	0.98	-1.3	0.04	-1.6
A_55_P2018176	AK039146	AI504432	0.99	-1.0	0.99	-1.2	0.04	-1.6
A_55_P2143837	NM_007735	Col4a4	0.96	-1.1	1.00	-1.1	0.03	-1.6
A_55_P2105321	NM_023190	Acin1	0.72	-1.3	0.99	-1.2	0.03	-1.6
A_55_P2240823	NM_001128606	Epb4.1	0.82	-1.2	0.96	-1.3	0.03	-1.6
A_55_P2104917	NM_016902	Nphp1	0.56	-1.3	0.98	-1.2	0.02	-1.6
A_55_P2124553	NM_031998	Tsga14	0.70	-1.2	0.95	-1.3	0.02	-1.6
A_55_P2127174	NM_170759	Zfp628	0.89	-1.2	0.98	-1.2	0.02	-1.6
A_51_P267544	NM_013522	Frg1	0.80	-1.2	0.92	-1.4	0.01	-1.6
A_30_P01026230			0.57	-1.3	0.87	-1.4	0.01	-1.6
A_55_P2175752	NM_001081975	Mfap1b	0.12	-1.5	0.49	-1.6	0.01	-1.6
A_55_P2014978	NM_007889	Dvl3	0.22	-1.4	0.79	-1.4	0.01	-1.6
A_30_P01018146			0.38	-1.3	0.79	-1.4	0.00	-1.6
A_55_P1999818	XM_001472026	Gm2006	0.38	-1.3	0.79	-1.4	0.00	-1.6
A_30_P01032942			0.36	-1.3	0.82	-1.4	0.00	-1.6
A_30_P01025536			0.14	-1.4	0.77	-1.4	0.00	-1.6
A_52_P194316	NM_001128094	Atp13a3	0.79	-1.2	0.91	-1.3	0.00	-1.6
A_55_P2132800	AK041361		0.58	-1.2	0.79	-1.3	0.00	-1.6
A_55_P2133624	XM_001475193	Gm2891	0.27	-1.3	0.37	-1.5	0.00	-1.6
A_66_P127262	XM_985872	Gm8799	0.22	-1.3	0.68	-1.4	0.00	-1.6
A_30_P01022343			0.26	-1.3	0.77	-1.4	0.00	-1.6
A_55_P2018307	XM_001005025	LOC677576	0.31	-1.3	0.77	-1.4	0.00	-1.6
A_55_P2151209	NM_130873	Krtap16-4	0.22	-1.4	0.77	-1.4	0.00	-1.6
A_51_P459661	NM_021460	Lipa	0.95	-1.1	0.82	-1.4	0.00	-1.6
A_55_P2097518	NM_001080943	Zdhhc22	0.00	-2.6	0.68	-2.3	0.09	-1.7
A_52_P45738	NM_029979	Trim35	0.79	-1.3	0.99	-1.2	0.04	-1.7
A_55_P2126662	NM_007616	Cav1	0.96	-1.1	0.98	-1.3	0.01	-1.7
A_55_P1985259	NM_001017985	C2cd3	0.60	-1.3	0.93	-1.4	0.00	-1.7
A_30_P01032670			0.29	-1.3	0.55	-1.6	0.00	-1.7
A_30_P01024297			0.53	-1.3	0.79	-1.4	0.00	-1.7
A_55_P2304507	NM_172204	Noxa1	0.84	-1.3	0.79	-1.9	0.03	-1.8

A_55_P1974407	NM_011074	Cdk14	0.92	-1.2	0.99	-1.2	0.01	-1.8
A_55_P2073935	NM_013790	Abcc5	0.97	-1.1	0.97	-1.3	0.00	-1.8
A_55_P2085142	NM_009263	Spp1	0.57	-1.3	0.00	-1.8	0.00	-1.8
A_52_P667913	NM_033592	Pcdhga9	0.66	-1.4	0.99	-1.4	0.04	-1.9
A_30_P01032068			0.41	-1.5	0.79	-1.7	0.01	-1.9
A_51_P279693	NM_009992	Cyp1a1	0.00	-2.2	0.71	-1.9	0.01	-2.0
A_51_P484842	NM_007493	Asgr2	0.68	-1.4	0.90	-1.6	0.02	-2.0
A_55_P2056344	NM_001142539	Gm9992	0.00	-4.1	0.68	-3.1	0.10	-2.1
A_55_P2001494	NM_013598	Kitl	0.95	-1.2	0.99	-1.4	0.03	-2.2
A_55_P1990032	NM_009141	Cxcl5	0.49	-2.8	0.55	-6.6	0.02	-5.8

3.3.6 DBahA Lung. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 6.25, 12.5, and 25 mg/kg-bw/day dibenz(ah)anthracene in the lung. The list is sorted from highest to lowest fold change in the 25 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	6.25 mg/kg-bw/day		12.5 mg/kg-bw/day		25 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_55_P1960735	NM_011819	Gdf15	0.00	6.1	0.00	9.1	0.00	11.6
A_51_P363947	NM_007669	Cdkn1a	0.00	4.4	0.00	6.3	0.00	7.1
A_55_P1986282	NM_0011111099	Cdkn1a	0.00	4.0	0.00	4.7	0.00	6.7
A_51_P414396	NM_153127	Mmrn2	0.00	3.2	0.00	4.3	0.00	5.7
A_55_P1959500	NM_172759	Ces5	0.00	4.0	0.00	5.1	0.00	5.3
A_55_P2142226	NM_001034870	Serpina3h	0.86	1.2	0.00	4.5	0.00	5.3
A_55_P2032079	NM_016974	Dbp	0.00	3.3	0.00	5.1	0.00	5.1
A_55_P2005213	NM_145603	Ces2	0.00	2.7	0.00	3.8	0.00	5.0
A_55_P2032081	NM_016974	Dbp	0.00	3.0	0.00	4.6	0.00	4.8
A_55_P1972948	NM_176954	Brunol5	0.00	1.9	0.00	3.5	0.00	4.3
A_51_P329928	NM_013750	Phlda3	0.00	2.7	0.00	3.5	0.00	4.1
A_51_P487073	NM_138684	Wfdc12	0.03	1.8	0.00	3.2	0.00	4.1
A_52_P612803	NM_009831	Ccng1	0.00	2.6	0.00	3.7	0.00	3.8
A_55_P2107528			0.00	2.0	0.00	2.9	0.00	3.7
A_55_P2165414	NM_009243	Serpina1a	0.19	1.7	0.00	3.1	0.00	3.4
A_51_P204740	NM_133654	Cd34	0.06	1.6	0.00	2.8	0.00	3.4
A_52_P679105	NM_029614	Prss23	0.00	2.0	0.00	2.8	0.00	3.1
A_55_P1954835	XM_001475752	LOC100046186	0.00	1.8	0.00	2.2	0.00	3.1
A_52_P539310	NM_001160326	Serp2	0.00	1.7	0.00	2.4	0.00	3.1
A_55_P1965154	NM_025565	Spc25	0.00	2.7	0.00	2.9	0.00	3.0
A_55_P2095271	NM_153805	Pkn3	0.00	2.0	0.00	2.1	0.00	3.0
A_55_P2101340	NM_019511	Ramp3	0.00	1.7	0.00	1.9	0.00	2.9
A_55_P2010301	NM_009245	Serpina1c	0.25	1.6	0.01	2.7	0.00	2.9
A_30_P01019901			0.12	1.6	0.04	1.9	0.00	2.9
A_55_P1983773	NM_001012273	Birc5	0.00	2.6	0.00	3.0	0.00	2.8
A_30_P01018535			0.19	1.4	0.03	1.9	0.00	2.8
A_55_P2141860	NM_026531	Aen	0.00	2.0	0.00	2.5	0.00	2.7
A_55_P2145804	NM_026531	Aen	0.00	1.9	0.00	2.6	0.00	2.7
A_55_P2046709			0.25	1.5	0.00	2.6	0.00	2.7

A_30_P01032234			0.16	1.4	0.00	2.4	0.00	2.7
A_55_P2119257	NM_008871	Serpine1	0.07	1.5	0.00	2.3	0.00	2.7
A_55_P2173982	NM_009104	Rrm2	0.00	2.1	0.00	2.5	0.00	2.6
A_51_P326191	NM_009251	Serpina3g	0.00	2.1	0.00	3.4	0.00	2.6
A_55_P2031999	NM_145448	9030617O03Rik	0.00	1.8	0.00	2.2	0.00	2.6
A_55_P2092286	XM_001481225	LOC100048780	0.00	1.8	0.00	2.1	0.00	2.6
A_55_P2007713	NM_053082	Tspan4	0.00	1.7	0.00	2.0	0.00	2.6
A_55_P2113857	NM_009247	Serpina1e	0.16	1.6	0.01	2.4	0.00	2.6
A_55_P2015292	NM_008521	Ltc4s	0.33	1.3	0.01	2.2	0.00	2.6
A_52_P675395	NM_007722	Cxcr7	0.07	1.5	0.00	1.9	0.00	2.6
A_55_P1967291	NM_144818	Ncaph	0.00	2.3	0.00	2.4	0.00	2.5
A_51_P175580	NM_021897	Trp53inp1	0.00	2.0	0.00	2.5	0.00	2.5
A_30_P01027010			0.00	2.0	0.00	2.2	0.00	2.5
A_30_P01026536			0.00	2.0	0.00	2.4	0.00	2.5
A_55_P2137406	NM_007527	Bax	0.00	2.0	0.00	2.2	0.00	2.5
A_55_P2011146	NM_178608	Reep1	0.00	1.9	0.00	2.1	0.00	2.5
A_51_P433870	NM_009506	Vegfc	0.00	1.9	0.00	2.0	0.00	2.5
A_51_P323620	NM_144543	Thyn1	0.00	1.8	0.00	2.2	0.00	2.5
A_52_P311853	NM_030143	Ddit4l	0.01	1.7	0.00	2.2	0.00	2.5
A_55_P2039320	NM_178679	Zfp365	0.02	1.5	0.00	2.3	0.00	2.5
A_55_P1966774	XM_893705	Gm6930	0.67	1.2	0.00	2.8	0.00	2.5
A_30_P01026923			0.21	1.6	0.05	1.9	0.00	2.5
A_52_P249733	NM_011540	Tcap	0.89	1.1	0.50	1.5	0.00	2.5
A_51_P424959	NM_007528	Bcl6b	0.00	1.8	0.00	2.1	0.00	2.4
A_55_P2073377	NM_001081117	Mki67	0.00	2.5	0.00	2.6	0.00	2.3
A_51_P253803	NM_001081117	Mki67	0.00	2.5	0.00	2.4	0.00	2.3
A_51_P480328	NM_133222	Eltd1	0.00	2.0	0.00	2.0	0.00	2.3
A_55_P2104975	NM_001168294	Serpina3f	0.00	2.0	0.00	2.1	0.00	2.3
A_55_P2148534	BC096461	Nr1d2	0.00	1.9	0.00	2.4	0.00	2.3
A_52_P29953	NM_175398	6530418L21Rik	0.00	1.7	0.00	2.0	0.00	2.3
A_52_P686785	NM_053247	Lyve1	0.34	1.5	0.01	2.5	0.00	2.3
A_52_P536494	NM_008709	Mycn	0.00	1.4	0.00	1.7	0.00	2.3
A_51_P481920	NM_009828	Ccna2	0.00	2.2	0.00	2.3	0.00	2.2
A_52_P303891	NM_011584	Nr1d2	0.00	1.8	0.00	2.1	0.00	2.2
A_51_P350403	NM_009148	Exoc4	0.00	1.8	0.00	2.0	0.00	2.2
A_55_P2169227	NM_177716	Al836003	0.00	1.6	0.00	1.8	0.00	2.2
A_51_P415220	NM_009517	Zmat3	0.00	1.6	0.00	2.2	0.00	2.2
A_66_P111562	NM_007631	Ccnd1	0.01	1.5	0.00	2.0	0.00	2.2
A_51_P269203	NM_022017	Trpv4	0.32	1.4	0.02	2.0	0.00	2.2
A_52_P624434	NM_175526	Clec1a	0.07	1.6	0.01	1.9	0.00	2.2
A_51_P351896	NM_133187	Fam198b	0.18	1.5	0.04	1.8	0.00	2.2
A_30_P01028922			0.07	1.4	0.00	1.7	0.00	2.2
A_66_P118600	NM_008480	Lama1	0.00	2.2	0.01	1.9	0.00	2.1
A_51_P164014	NM_173762	Cenpe	0.00	1.9	0.00	2.1	0.00	2.1
A_30_P01020960			0.00	1.9	0.00	2.1	0.00	2.1
A_52_P151320	NM_025566	Tnfrsf8l1	0.00	1.8	0.00	2.0	0.00	2.1
A_55_P2052062	NM_010818	Cd200	0.01	1.7	0.06	1.6	0.00	2.1
A_51_P369252	NM_001080995	4632434I11Rik	0.00	1.7	0.00	1.9	0.00	2.1
A_55_P2002578	NM_010145	Ephx1	0.00	1.7	0.00	2.0	0.00	2.1

A_55_P2018666	NM_009381	Thrsp	0.89	1.1	0.01	2.0	0.00	2.1
A_51_P514449	NM_030676	Nr5a2	0.19	1.4	0.00	1.9	0.00	2.1
A_55_P2009225	NM_133654	Cd34	0.17	1.4	0.00	1.9	0.00	2.1
A_55_P2039250	NM_026037	Mboat2	0.09	1.4	0.00	1.9	0.00	2.1
A_55_P2009752	NM_172563	Hlf	0.22	1.4	0.01	1.8	0.00	2.1
A_30_P01026613			0.30	1.3	0.02	1.7	0.00	2.1
A_52_P669005	NM_023624	Lrat	0.65	1.3	0.95	1.1	0.01	2.1
A_51_P111962	NM_001141922	mCG_21548	0.69	1.2	0.46	1.3	0.00	2.1
A_30_P01026797			0.22	1.3	0.18	1.4	0.00	2.1
A_55_P1988048	NM_001163522	Emcn	0.11	1.5	0.22	1.4	0.00	2.1
A_30_P01030802			0.09	1.3	0.03	1.4	0.00	2.1
A_55_P2103837	NM_008620	Gbp4	0.00	2.1	0.00	1.9	0.00	2.0
A_52_P162099	NM_001004140	Ckap2	0.00	2.1	0.00	1.9	0.00	2.0
A_52_P232637	NM_007857	Dhh	0.00	1.9	0.03	1.5	0.00	2.0
A_51_P270949	NM_020034	Hist1h1b	0.00	1.8	0.01	1.6	0.00	2.0
A_52_P136782	NM_009063	Rgs5	0.00	1.7	0.00	1.9	0.00	2.0
A_30_P01025790			0.00	1.7	0.00	2.1	0.00	2.0
A_52_P350554	NM_008420	Kcnb1	0.03	1.6	0.00	2.0	0.00	2.0
A_52_P418489	NM_023476	Tinagl1	0.02	1.6	0.01	1.7	0.00	2.0
A_51_P487813	NM_016753	Lxn	0.01	1.6	0.00	1.8	0.00	2.0
A_55_P1976584	NM_001038710	Tmod2	0.01	1.6	0.01	1.7	0.00	2.0
A_55_P1986833	NM_054040	Tulp4	0.00	1.6	0.00	1.9	0.00	2.0
A_55_P2269819	NM_183187	Fam107a	0.01	1.5	0.00	1.8	0.00	2.0
A_55_P2035286	NM_010931	Uhrf1	0.00	1.5	0.00	1.9	0.00	2.0
A_55_P2078365	NM_173402	Rgs12	0.03	1.4	0.00	1.7	0.00	2.0
A_55_P2006008	NM_025429	Serpinb1a	0.28	1.3	0.04	1.6	0.00	2.0
A_55_P2017977	NM_001033266	Gm525	0.06	1.4	0.20	1.3	0.00	2.0
A_51_P455897	NM_144526	Fam64a	0.00	2.0	0.00	1.9	0.00	1.9
A_52_P627068	NM_170593	Disp2	0.05	1.6	0.01	2.0	0.00	1.9
A_30_P01025511			0.01	1.6	0.01	1.8	0.00	1.9
A_55_P2094925	NM_011157	Srgn	0.01	1.6	0.04	1.4	0.00	1.9
A_66_P106789	XM_894271	Gm6970	0.01	1.6	0.04	1.5	0.00	1.9
A_55_P2084631	NM_178184	Hist1h2an	0.00	1.6	0.00	1.6	0.00	1.9
A_51_P113178	NM_175398	6530418L21Rik	0.00	1.6	0.00	1.9	0.00	1.9
A_55_P2099961	NM_178186	Hist1h2ag	0.00	1.6	0.00	1.7	0.00	1.9
A_55_P2140941	NM_023476	Tinagl1	0.00	1.6	0.13	1.4	0.00	1.9
A_51_P161354	NM_144907	Sesn2	0.00	1.6	0.00	1.9	0.00	1.9
A_55_P2187076	NM_011430	Sncg	0.00	1.6	0.00	1.9	0.00	1.9
A_51_P401683	NM_145375	Tm6sf1	0.00	1.6	0.00	1.7	0.00	1.9
A_66_P138053	AK044848		0.03	1.5	0.03	1.5	0.00	1.9
A_55_P1979893	NM_017376	Tef	0.03	1.5	0.00	1.7	0.00	1.9
A_66_P120125	NM_053078	D0H4S114	0.03	1.5	0.00	1.8	0.00	1.9
A_30_P01030486			0.03	1.5	0.09	1.4	0.00	1.9
A_51_P329332	NM_054087	Slc19a2	0.01	1.5	0.00	1.8	0.00	1.9
A_51_P246903	NM_026467	Rps27l	0.01	1.5	0.00	1.7	0.00	1.9
A_52_P498208	NM_178183	Hist1h2ak	0.00	1.5	0.01	1.6	0.00	1.9
A_30_P01029956			0.00	1.5	0.00	1.7	0.00	1.9
A_51_P372550	NM_026770	Cgref1	0.95	1.0	0.05	1.7	0.00	1.9
A_52_P198898	NM_177271	Samd5	0.22	1.4	0.04	1.7	0.00	1.9

A_66_P107038	NM_028243	Prcp	0.55	1.2	0.00	1.7	0.00	1.9
A_55_P2071858	NM_008598	Mgmt	0.49	1.2	0.02	1.6	0.00	1.9
A_55_P2034027	NM_008713	Nos3	0.09	1.3	0.00	1.6	0.00	1.9
A_51_P270184	NM_025811	Nhlrc2	0.08	1.4	0.02	1.5	0.00	1.9
A_30_P01018099			0.14	1.3	0.01	1.5	0.00	1.9
A_52_P87839	NM_013657	Sema3c	0.99	1.0	0.11	1.4	0.00	1.9
A_51_P461429	NM_007825	Cyp7b1	0.74	1.1	0.21	1.4	0.00	1.9
A_52_P111031	NM_001013753	Pcdh17	0.28	1.4	0.19	1.6	0.00	1.9
A_51_P360492	NM_008567	Mcm6	0.18	1.5	0.12	1.6	0.00	1.9
A_51_P230098	NM_023209	Pbk	0.00	1.9	0.00	1.7	0.00	1.8
A_55_P1996946	NM_023223	Cdc20	0.00	1.8	0.00	1.8	0.00	1.8
A_51_P133137	NM_009004	Kif20a	0.00	1.7	0.00	1.8	0.00	1.8
A_51_P103594	NM_029894	Fam162b	0.01	1.6	0.05	1.5	0.00	1.8
A_55_P2004801	NM_001040435	Tacc3	0.00	1.6	0.00	1.7	0.00	1.8
A_52_P55772	NM_009325	Tbxa2r	0.04	1.5	0.06	1.5	0.00	1.8
A_55_P2109505	XM_890094	Gm6594	0.02	1.5	0.01	1.6	0.00	1.8
A_55_P2036007	NM_198409	Rai2	0.02	1.5	0.05	1.5	0.00	1.8
A_55_P2037812	NM_023245	Palmd	0.01	1.5	0.01	1.5	0.00	1.8
A_55_P2102335	NM_033327	Zfp423	0.01	1.5	0.00	1.6	0.00	1.8
A_52_P209484	NM_025915	Tmem88	0.01	1.5	0.01	1.6	0.00	1.8
A_51_P276479	NM_178098	4930486L24Rik	0.01	1.5	0.00	1.7	0.00	1.8
A_51_P179697	NM_026884	Fam57b	0.01	1.5	0.00	1.6	0.00	1.8
A_55_P1960049	NM_027419	2810408A11Rik	0.01	1.5	0.01	1.6	0.00	1.8
A_55_P2470474	AK087205	9530082P21Rik	0.00	1.5	0.00	1.6	0.00	1.8
A_55_P2002577	NM_010145	Ephx1	0.00	1.5	0.00	1.6	0.00	1.8
A_55_P2110245	NM_001163359	Fignl1	0.00	1.5	0.00	1.7	0.00	1.8
A_51_P110471	NM_026993	Ddah1	0.06	1.6	0.01	1.7	0.00	1.8
A_55_P2008936	NM_001102414	Slc2a9	0.18	1.3	0.00	1.7	0.00	1.8
A_55_P2114779	NM_015764	Greb1	0.35	1.3	0.05	1.6	0.00	1.8
A_51_P139651	NM_008713	Nos3	0.05	1.4	0.01	1.6	0.00	1.8
A_55_P1992084	NM_008981	Ptprg	0.02	1.3	0.00	1.6	0.00	1.8
A_66_P122086	NM_001039720	9030619P08Rik	0.01	1.4	0.00	1.6	0.00	1.8
A_55_P2175284	NM_007915	Ei24	0.01	1.4	0.00	1.6	0.00	1.8
A_55_P1953728	NM_016701	Nes	0.13	1.3	0.01	1.5	0.00	1.8
A_55_P2129316			0.00	1.4	0.00	1.5	0.00	1.8
A_52_P90363	NM_029803	Ifi27l2a	0.99	1.0	0.20	1.7	0.04	1.8
A_55_P1983769	NM_001012273	Birc5	0.37	1.4	0.53	1.3	0.01	1.8
A_55_P2143025	NM_013657	Sema3c	0.99	-1.0	0.28	1.4	0.00	1.8
A_55_P2103452	NM_010934	Npy1r	0.30	1.3	0.21	1.4	0.00	1.8
A_30_P01029287			0.37	1.2	0.21	1.4	0.00	1.8
A_51_P390804	NM_016873	Wisp2	0.29	1.3	0.52	1.3	0.00	1.8
A_30_P01031906			0.21	1.3	0.41	1.3	0.00	1.8
A_66_P136186	NM_009516	Wee1	0.13	1.4	0.06	1.5	0.00	1.8
A_51_P367780	NM_029981	Adamtsl2	0.21	1.4	0.11	1.5	0.00	1.8
A_30_P01021307			0.15	1.4	0.50	1.2	0.00	1.8
A_55_P2060922	NM_153131	Unc5a	0.02	2.7	0.29	1.9	0.21	1.7
A_55_P2056654	NM_145588	Kif22	0.00	1.9	0.00	1.9	0.00	1.7
A_55_P1988083	NM_145150	Prc1	0.00	1.9	0.00	1.7	0.00	1.7
A_51_P240453	NM_133851	Nusap1	0.00	1.9	0.00	1.8	0.00	1.7

A_55_P1990067	XM_001478394	Gm9525	0.00	1.7	0.00	1.8	0.00	1.7
A_55_P2063146			0.00	1.7	0.00	1.7	0.00	1.7
A_51_P369200	NM_028109	Tpx2	0.00	1.7	0.00	1.6	0.00	1.7
A_51_P204402	NM_011369	Shcbp1	0.00	1.7	0.00	1.7	0.00	1.7
A_30_P01024344			0.04	1.6	0.17	1.4	0.00	1.7
A_51_P169693	NM_198095	Bst2	0.01	1.6	0.02	1.7	0.00	1.7
A_55_P2003813	NM_153522	Scn3b	0.01	1.6	0.00	1.8	0.00	1.7
A_66_P134542	NM_028390	Anln	0.00	1.6	0.00	1.8	0.00	1.7
A_30_P01020075			0.00	1.6	0.00	1.7	0.00	1.7
A_55_P2288232	AK018137	6330407118Rik	0.00	1.6	0.00	1.7	0.00	1.7
A_66_P101835	NM_007646	Cd38	0.00	1.6	0.01	1.5	0.00	1.7
A_55_P2048588	NM_007659	Cdk1	0.00	1.6	0.00	1.7	0.00	1.7
A_55_P2087087	NM_001032378	Pecam1	0.02	1.5	0.01	1.6	0.00	1.7
A_30_P01025143			0.01	1.5	0.00	1.6	0.00	1.7
A_55_P2095311	XM_001475753	Ly6g	0.00	1.5	0.06	1.4	0.00	1.7
A_52_P220810	NM_144551	Trib2	0.00	1.5	0.00	1.6	0.00	1.7
A_55_P2006327	NM_008981	Ptprg	0.00	1.5	0.00	1.6	0.00	1.7
A_55_P1973906	NM_021897	Trp53inp1	0.00	1.5	0.00	1.7	0.00	1.7
A_55_P2018847	NM_001164735	Crlf2	0.00	1.5	0.01	1.5	0.00	1.7
A_55_P2062543	NM_053173	Kifc1	0.00	1.5	0.00	1.5	0.00	1.7
A_55_P2107155	NM_029182	Rasd2	0.14	1.5	0.00	2.0	0.01	1.7
A_55_P2010298	NM_009246	Serpina1d	0.53	1.2	0.01	1.9	0.01	1.7
A_55_P2161450	NM_173024	Serpina3b	0.54	1.2	0.00	1.8	0.00	1.7
A_51_P231320	NM_008611	Mmp8	0.09	1.3	0.00	1.8	0.00	1.7
A_55_P2024704	NM_013494	Cpe	0.87	1.1	0.05	1.7	0.01	1.7
A_51_P336721	NM_025372	Tipin	0.16	1.4	0.01	1.7	0.00	1.7
A_55_P2076866	NM_001162977	Megf6	0.00	1.4	0.00	1.7	0.00	1.7
A_55_P1998001	NM_001025384	DXBay18	0.09	1.4	0.00	1.7	0.00	1.7
A_52_P89567	NM_007483	Rhob	0.04	1.4	0.01	1.6	0.00	1.7
A_55_P1987914	NM_008696	Map4k4	0.00	1.4	0.00	1.6	0.00	1.7
A_51_P367310	NM_028083	Chaf1b	0.06	1.4	0.00	1.6	0.00	1.7
A_66_P119376	NM_177715	Kctd12	0.00	1.4	0.00	1.6	0.00	1.7
A_55_P1975415	NM_146067	Cpped1	0.01	1.3	0.00	1.6	0.00	1.7
A_51_P290576	NM_152804	Plk2	0.01	1.4	0.00	1.6	0.00	1.7
A_55_P2084656	NM_175659	Hist1h2ah	0.07	1.4	0.05	1.5	0.00	1.7
A_55_P1954221	NM_010128	Emp1	0.31	1.3	0.03	1.5	0.00	1.7
A_55_P2084652	NM_178183	Hist1h2ak	0.04	1.4	0.01	1.5	0.00	1.7
A_55_P2002122	NM_173402	Rgs12	0.05	1.4	0.01	1.5	0.00	1.7
A_55_P2405784	AK141429	BC023202	0.04	1.4	0.01	1.5	0.00	1.7
A_55_P1975475	NM_010786	Mdm2	0.07	1.3	0.01	1.5	0.00	1.7
A_55_P2054854	NM_026639	Art4	0.06	1.4	0.01	1.5	0.00	1.7
A_55_P2408355	AK037728	BB166591	0.28	1.3	0.01	1.5	0.00	1.7
A_55_P2116465	NM_008981	Ptprg	0.04	1.4	0.00	1.5	0.00	1.7
A_51_P413785	NM_147778	Commd3	0.00	1.4	0.00	1.5	0.00	1.7
A_55_P1961499	NM_010741	Ly6c1	0.02	1.3	0.00	1.5	0.00	1.7
A_66_P128384	NM_008228	Hdac1	0.60	1.3	1.00	-1.0	0.04	1.7
A_55_P2025038	NM_013494	Cpe	0.73	1.2	0.17	1.5	0.02	1.7
A_52_P469789	NM_007588	Calcr	0.45	1.3	0.12	1.6	0.01	1.7
A_30_P01026973			0.35	1.2	0.13	1.4	0.00	1.7

A_51_P426270	NM_008597	Mgp	0.59	1.2	0.23	1.4	0.00	1.7
A_30_P01023651			0.10	1.3	0.06	1.3	0.00	1.7
A_51_P259975	NM_023113	Aspa	0.91	1.1	0.70	1.1	0.00	1.7
A_55_P1993789	NM_016957	Hmgn2	0.06	1.5	0.38	1.3	0.00	1.7
A_51_P159453	NM_009252	Serpina3n	0.16	1.4	0.15	1.4	0.00	1.7
A_51_P468464	NM_201352	Gdpd5	0.12	1.4	0.21	1.4	0.00	1.7
A_52_P587738	NM_008773	P2ry2	0.42	1.3	0.07	1.6	0.00	1.7
A_55_P1985591	NM_024170	Cxx1a	0.07	1.4	0.06	1.5	0.00	1.7
A_65_P07627	NM_007826	Dach1	0.07	1.6	0.30	1.4	0.00	1.7
A_52_P264790	NM_027924	Pdgfd	0.05	1.4	0.12	1.4	0.00	1.7
A_55_P2137421	NM_022017	Trpv4	0.23	1.3	0.06	1.5	0.00	1.7
A_51_P124254	NM_009931	Col4a1	0.10	1.5	0.07	1.6	0.00	1.7
A_55_P2083988	NM_008505	Lmo2	0.48	1.2	0.46	1.2	0.00	1.7
A_51_P220343	NM_018865	Wisp1	0.53	1.2	0.07	1.5	0.00	1.7
A_55_P1974028	NM_138673	Stab2	0.04	1.4	0.10	1.4	0.00	1.7
A_55_P2064771	NM_010741	Ly6c1	0.07	1.4	0.06	1.4	0.00	1.7
A_51_P354706	NM_010094	Lefty1	0.07	1.4	0.02	1.4	0.00	1.7
A_51_P383194	NM_008804	Pde9a	0.00	1.4	0.00	1.4	0.00	1.7
A_55_P2355330	NM_145613	C1qtnf5	0.00	1.4	0.41	1.2	0.00	1.7
A_55_P1953402	NM_029993	Mlana	0.62	1.2	0.47	1.2	0.00	1.7
A_55_P2057936	NM_001135115	Gm12250	0.01	2.2	0.14	1.8	0.16	1.6
A_52_P627269	NM_198171	BC015286	0.00	2.0	0.00	1.7	0.00	1.6
A_52_P327664	NM_153564	Gbp5	0.01	1.8	0.03	1.7	0.03	1.6
A_51_P451151	NM_026785	Ube2c	0.00	1.8	0.00	1.7	0.00	1.6
A_55_P2168628	NM_133678	Sac3d1	0.00	1.6	0.00	1.6	0.00	1.6
A_51_P487999	NM_028232	Sgol1	0.00	1.6	0.02	1.5	0.00	1.6
A_52_P281145	NM_172872	Kank4	0.00	1.6	0.13	1.4	0.00	1.6
A_55_P2124712	NM_145603	Ces2	0.00	1.6	0.00	1.6	0.00	1.6
A_55_P1976204	U09507		0.00	1.6	0.00	1.6	0.00	1.6
A_51_P457528	NM_007630	Ccnb2	0.00	1.6	0.00	1.6	0.00	1.6
A_51_P155142	NM_026560	Cdca8	0.00	1.6	0.01	1.6	0.00	1.6
A_55_P1960216	NM_009842	Cd151	0.02	1.5	0.00	1.8	0.00	1.6
A_30_P01026167			0.01	1.5	0.00	1.6	0.00	1.6
A_55_P2108708	NM_020574	Kcne3	0.01	1.5	0.06	1.5	0.00	1.6
A_30_P01026752			0.00	1.5	0.00	1.7	0.00	1.6
A_55_P2096867	NM_008083	Gap43	0.00	1.5	0.01	1.5	0.00	1.6
A_30_P01019123			0.00	1.5	0.00	1.6	0.00	1.6
A_55_P1994939	NM_008252	Hmgb2	0.00	1.5	0.00	1.6	0.00	1.6
A_51_P227004	NM_016904	Cks1b	0.00	1.5	0.00	1.6	0.00	1.6
A_51_P382152	NM_011171	Procr	0.66	1.2	0.03	1.9	0.05	1.6
A_55_P2065671	NM_172301	Ccnb1	0.01	1.4	0.00	1.7	0.00	1.6
A_55_P2000533	NM_012048	Polk	0.00	1.4	0.00	1.7	0.00	1.6
A_52_P322181	NM_007419	Adrb1	0.01	1.4	0.00	1.7	0.00	1.6
A_55_P2018017	NM_009425	Tnfsf10	0.06	1.4	0.00	1.7	0.00	1.6
A_55_P2151006	NM_001135172	C1qtnf7	0.06	1.5	0.05	1.6	0.01	1.6
A_55_P2040245	NM_001039485	Fam38b	0.16	1.4	0.05	1.6	0.01	1.6
A_51_P307168	NM_026993	Ddah1	0.08	1.5	0.04	1.6	0.01	1.6
A_55_P1994194	NM_001159628	Heph	0.27	1.3	0.04	1.6	0.00	1.6
A_52_P501816	NM_020049	Slc6a14	0.11	1.3	0.01	1.6	0.00	1.6

A_52_P577729	NM_175388	Rnf169	0.00	1.4	0.00	1.6	0.00	1.6
A_51_P502082	NM_009103	Rrm1	0.09	1.3	0.00	1.6	0.00	1.6
A_55_P1965298	NM_001099302	Gm5640	0.31	1.2	0.00	1.6	0.00	1.6
A_51_P301636	NM_001109685	9030409G11Rik	0.05	1.4	0.00	1.6	0.00	1.6
A_51_P367866	NM_007913	Egr1	0.24	1.3	0.04	1.5	0.00	1.6
A_30_P01030372			0.02	1.4	0.04	1.5	0.00	1.6
A_55_P1984690	NM_011217	Ptprr	0.08	1.4	0.03	1.5	0.00	1.6
A_55_P2103706	XM_485921	Gm5593	0.04	1.4	0.03	1.5	0.00	1.6
A_51_P148105	NM_011234	Rad51	0.05	1.4	0.03	1.5	0.00	1.6
A_55_P1980262	NM_001018063	Cxx1b	0.11	1.3	0.02	1.5	0.00	1.6
A_55_P2336558	NM_001163640	Chn2	0.25	1.2	0.01	1.5	0.00	1.6
A_51_P140641	NM_145570	Fam176a	0.29	1.2	0.01	1.5	0.00	1.6
A_55_P2031979	NM_010656	Sspn	0.20	1.2	0.01	1.5	0.00	1.6
A_55_P2177154	NM_178200	Hist1h2bm	0.08	1.3	0.01	1.5	0.00	1.6
A_55_P2320313	BC058714	Al852064	0.01	1.4	0.01	1.5	0.00	1.6
A_55_P2133255	NM_019499	Mad2l1	0.00	1.4	0.00	1.5	0.00	1.6
A_30_P01019169			0.00	1.4	0.00	1.5	0.00	1.6
A_51_P393426	NM_011173	Pros1	0.00	1.4	0.00	1.5	0.00	1.6
A_55_P2090359	NM_148937	Plcd4	0.28	1.4	0.14	1.6	0.04	1.6
A_55_P2035424	NM_008278	Hpgd	0.26	1.4	0.77	1.2	0.04	1.6
A_55_P1969477	NM_011076	Abcb1a	0.45	1.3	0.62	1.2	0.03	1.6
A_52_P5891	NM_029658	Fam101b	0.11	1.4	0.10	1.5	0.02	1.6
A_55_P2176792	NM_017400	Sh3gl3	0.65	1.2	0.22	1.4	0.02	1.6
A_51_P392687	NM_011701	Vim	0.40	1.3	0.12	1.6	0.02	1.6
A_55_P2349148	AK017909	5830408B19Rik	0.37	1.3	0.20	1.4	0.01	1.6
A_55_P2151011	BC090967	C1qtnf7	0.37	1.3	0.33	1.4	0.01	1.6
A_51_P342877	NM_011322	Scn1b	0.25	1.3	0.08	1.5	0.01	1.6
A_30_P01032002			0.06	1.5	0.20	1.4	0.01	1.6
A_52_P211956	NM_025658	Ms4a4d	0.13	1.5	0.86	1.1	0.01	1.6
A_66_P117730	NM_013500	Hapln1	0.58	1.2	0.21	1.4	0.01	1.6
A_55_P2082688	NM_021515	Ak1	0.95	-1.0	0.25	1.3	0.01	1.6
A_30_P01026626			0.20	1.3	0.49	1.2	0.00	1.6
A_55_P1967538	NM_015755	Hunk	0.03	1.4	0.17	1.3	0.00	1.6
A_55_P2154027	NM_008968	Ptgis	0.09	1.3	0.09	1.4	0.00	1.6
A_55_P2393021	AK053260	A430106G13Rik	0.04	1.4	0.08	1.4	0.00	1.6
A_51_P185906	NM_025659	Abi3	0.01	1.4	0.01	1.4	0.00	1.6
A_52_P227267	NM_178405	Atp1a2	0.02	1.4	0.09	1.4	0.00	1.6
A_51_P233160	NM_027309	Lysmd2	0.01	1.3	0.00	1.4	0.00	1.6
A_66_P104815	NM_007899	Ecm1	0.31	1.3	0.63	1.2	0.00	1.6
A_55_P2142232	XM_893705	Gm6930	0.70	1.1	0.20	1.3	0.00	1.6
A_30_P01028961			0.02	1.3	0.01	1.4	0.00	1.6
A_51_P218975	NM_173417	Kcns3	0.05	1.4	0.44	1.2	0.00	1.6
A_55_P1995173	NM_013614	Odc1	0.82	1.1	0.07	1.4	0.00	1.6
A_51_P355753	NM_010430	Hic1	0.25	1.3	0.20	1.3	0.00	1.6
A_51_P170807	AB021861	Map3k6	0.33	1.3	0.30	1.3	0.00	1.6
A_55_P2133266	NM_028375	Cxx1c	0.13	1.3	0.09	1.4	0.00	1.6
A_55_P2170813	NM_001164053	Pkig	0.89	1.1	0.17	1.3	0.00	1.6
A_30_P01017458			0.19	1.3	0.36	1.2	0.00	1.6
A_51_P474454	NM_026001	Rnaseh2b	0.03	1.4	0.04	1.4	0.00	1.6

A_51_P516133	NM_015786	Hist1h1c	0.68	1.1	0.14	1.4	0.00	1.6
A_55_P2112355	XM_980525	Gm7125	0.06	1.4	0.27	1.3	0.00	1.6
A_52_P222350	NM_134080	Flnb	0.09	1.4	0.10	1.4	0.00	1.6
A_55_P1972040	NM_015760	Nox4	0.12	1.4	0.08	1.4	0.00	1.6
A_55_P2055819	NM_001037722	Adam15	0.57	1.2	0.35	1.3	0.00	1.6
A_51_P170641	NM_030246	Dcaf4	0.08	1.3	0.02	1.4	0.00	1.6
A_55_P2028496	XM_001472085	Hmgn2l6	0.01	1.4	0.04	1.4	0.00	1.6
A_51_P284426	NM_030137	Cstad	0.71	1.1	0.24	1.3	0.00	1.6
A_52_P106709	NM_009027	Rasgrf2	0.06	1.3	0.04	1.4	0.00	1.6
A_52_P148678	AK169695		0.02	1.3	0.01	1.4	0.00	1.6
A_55_P1970105	NM_013589	Ltbp2	0.27	1.3	0.19	1.4	0.00	1.6
A_52_P193925	NM_028072	Sulf2	0.84	1.1	0.06	1.4	0.00	1.6
A_51_P109258	NM_138686	Cys1	0.30	1.3	0.10	1.5	0.00	1.6
A_51_P330213	NM_024184	Asf1b	0.00	1.4	0.01	1.4	0.00	1.6
A_55_P2181288	NM_025800	Ppp1r2	0.33	1.2	0.13	1.4	0.00	1.6
A_30_P01025359			0.00	2.4	0.27	1.7	0.28	1.5
A_51_P463846	NM_145545	Gbp6	0.00	1.8	0.04	1.6	0.01	1.5
A_55_P1990633	NM_001146275	ligp1	0.01	1.7	0.05	1.6	0.05	1.5
A_52_P354373	XM_001481164	1190002F15Rik	0.00	1.7	0.00	1.6	0.00	1.5
A_55_P1988228	NM_009791	Aspm	0.00	1.6	0.03	1.5	0.01	1.5
A_55_P2127702	NM_012025	Racgap1	0.00	1.6	0.00	1.6	0.00	1.5
A_55_P2062598	NM_178609	E2f7	0.00	1.6	0.00	1.6	0.00	1.5
A_55_P1996941	NM_026785	Ube2c	0.00	1.6	0.00	1.6	0.00	1.5
A_51_P516870	NM_008409	Itm2a	0.03	1.5	0.13	1.4	0.00	1.5
A_55_P1978465	NM_023124	H2-Q8	0.03	1.5	0.15	1.4	0.02	1.5
A_51_P416822	NM_020259	Hhip	0.02	1.5	0.01	1.6	0.00	1.5
A_55_P1954277	NM_080595	Emid1	0.02	1.5	0.04	1.5	0.01	1.5
A_51_P100327	NM_013683	Tap1	0.02	1.5	0.21	1.3	0.00	1.5
A_52_P30989	NM_028222	Cdkn3	0.01	1.5	0.02	1.4	0.00	1.5
A_55_P1953919	NM_181407	Me3	0.01	1.5	0.00	1.7	0.00	1.5
A_51_P252859	NM_010516	Cyr61	0.01	1.5	0.13	1.4	0.01	1.5
A_55_P2109717	NM_183046	Kif20b	0.01	1.5	0.03	1.5	0.00	1.5
A_51_P212420	NM_010681	Lama4	0.01	1.5	0.00	1.6	0.00	1.5
A_51_P202074	NM_146171	Ncapd2	0.00	1.5	0.00	1.6	0.00	1.5
A_52_P139650	NM_025581	Ska1	0.00	1.5	0.01	1.5	0.00	1.5
A_55_P1964078	XM_001479553	Gm4248	0.00	1.5	0.00	1.6	0.00	1.5
A_30_P01018593			0.00	1.5	0.01	1.4	0.00	1.5
A_51_P394558	NM_001162943	Dchs1	0.00	1.5	0.01	1.5	0.00	1.5
A_51_P386344	NM_172742	Mtmr10	0.00	1.5	0.02	1.4	0.00	1.5
A_51_P151902	NM_145584	Spon1	0.00	1.5	0.04	1.4	0.00	1.5
A_51_P300572	NM_009579	Slc30a1	0.00	1.5	0.00	1.5	0.00	1.5
A_51_P125135	NM_026410	Cdca5	0.00	1.5	0.01	1.5	0.00	1.5
A_55_P1980636	NM_011497	Aurka	0.00	1.5	0.00	1.5	0.00	1.5
A_55_P2024155	NM_001033324	Zbtb16	0.73	1.2	0.00	2.6	0.15	1.5
A_55_P2142222	NM_001034870	Serpina3h	0.94	-1.0	0.03	1.7	0.02	1.5
A_55_P2061495	NM_016904	Cks1b	0.01	1.4	0.00	1.7	0.00	1.5
A_51_P255456	NM_009994	Cyp1b1	0.33	1.2	0.02	1.6	0.01	1.5
A_30_P01023370			0.01	1.3	0.00	1.6	0.00	1.5
A_30_P01020899			0.13	1.3	0.00	1.6	0.00	1.5

A_55_P2012960	NM_024198	Gpx7	0.10	1.3	0.00	1.6	0.00	1.5
A_55_P1953920	NM_181407	Me3	0.02	1.4	0.00	1.6	0.00	1.5
A_55_P1968664			0.00	1.4	0.00	1.6	0.00	1.5
A_55_P2130178	NM_010233	Fn1	0.30	1.3	0.05	1.5	0.01	1.5
A_51_P451338	NM_010588	Jag2	0.20	1.3	0.04	1.5	0.01	1.5
A_55_P2027836	NM_020275	Tnfrsf10b	0.32	1.2	0.02	1.5	0.00	1.5
A_66_P100853	XM_978341	RP23-480B19.10	0.13	1.3	0.02	1.5	0.00	1.5
A_66_P115580	AK076360		0.15	1.3	0.02	1.5	0.01	1.5
A_51_P133612	NM_026014	Cdt1	0.01	1.4	0.02	1.5	0.00	1.5
A_55_P2011490	XM_001473460	Gm16510	0.02	1.4	0.01	1.5	0.00	1.5
A_55_P1980119	NM_024472	Gltpd1	0.05	1.4	0.01	1.5	0.00	1.5
A_55_P2160686	NM_009366	Tsc22d1	0.03	1.4	0.01	1.5	0.00	1.5
A_52_P151393	NM_198860	Al646023	0.01	1.4	0.01	1.5	0.00	1.5
A_55_P2136121	NM_145448	9030617O03Rik	0.00	1.4	0.01	1.5	0.00	1.5
A_51_P433026	NM_028922	Ppapdc2	0.11	1.3	0.01	1.5	0.00	1.5
A_55_P2023235	NM_007999	Fen1	0.13	1.2	0.00	1.5	0.00	1.5
A_51_P158210	NM_008564	Mcm2	0.00	1.4	0.00	1.5	0.00	1.5
A_55_P1953087	NM_008563	Mcm3	0.01	1.3	0.00	1.5	0.00	1.5
A_66_P125389	NM_001101475	F830016B08Rik	0.21	1.2	0.00	1.5	0.00	1.5
A_52_P335064	NM_181390	Mustn1	0.00	1.4	0.00	1.5	0.00	1.5
A_55_P2047621	NM_030021	D730039F16Rik	0.05	1.3	0.00	1.5	0.00	1.5
A_52_P529570	NM_198654	Nsl1	0.00	1.4	0.00	1.5	0.00	1.5
A_55_P2021285	NM_146067	Cpped1	0.01	1.3	0.00	1.5	0.00	1.5
A_30_P01023554			0.00	1.4	0.00	1.5	0.00	1.5
A_55_P1963483	NM_030559	Vps16	0.97	1.1	0.00	-3.6	0.42	1.5
A_55_P1963960	XM_918548	LOC641201	0.33	1.3	0.13	1.5	0.04	1.5
A_55_P1998943	NM_145211	Oas1a	0.32	1.3	0.32	1.4	0.04	1.5
A_55_P2048478	NM_172907	Olfml1	0.23	1.4	0.15	1.5	0.04	1.5
A_55_P2236291	NM_008903	Ppap2a	0.25	1.4	0.50	1.3	0.03	1.5
A_30_P01021453			0.84	1.1	0.27	1.4	0.03	1.5
A_66_P126640	NM_007592	Car8	0.43	1.2	0.12	1.4	0.03	1.5
A_55_P1958887	NM_001025384	DXBay18	0.33	1.3	0.26	1.4	0.03	1.5
A_55_P1998299	NM_001005608	Itgb4	0.79	1.1	0.56	1.2	0.03	1.5
A_51_P158678	NM_021427	Fam181b	0.59	1.2	0.23	1.4	0.03	1.5
A_51_P282760	NM_011066	Per2	0.25	1.3	0.10	1.5	0.03	1.5
A_51_P156438	NM_027460	Slc25a33	0.97	-1.0	0.51	1.2	0.03	1.5
A_55_P2088601	NM_010180	Fbln1	0.74	1.1	0.14	1.5	0.03	1.5
A_55_P1982818	NM_013614	Odc1	0.75	1.1	0.37	1.3	0.03	1.5
A_51_P491350	NM_009932	Col4a2	0.21	1.3	0.30	1.3	0.02	1.5
A_51_P493037	NM_018831	Dclre1a	0.53	1.2	0.79	1.1	0.02	1.5
A_51_P249118	NM_008830	Abcb4	0.27	1.3	0.39	1.3	0.02	1.5
A_30_P01018726			0.27	1.3	0.35	1.3	0.02	1.5
A_55_P2010312	NM_009243	Serpina1a	0.73	1.1	0.17	1.4	0.02	1.5
A_51_P195153	NM_013882	Gtse1	0.33	1.3	0.11	1.5	0.02	1.5
A_55_P2106039	NM_016693	Map3k6	0.29	1.3	0.60	1.2	0.02	1.5
A_51_P157042	NM_010217	Ctgf	0.19	1.4	0.16	1.5	0.02	1.5
A_55_P2026223	NM_011373	St6galnac4	0.28	1.3	0.26	1.3	0.02	1.5
A_51_P226269	NM_025427	1190002H23Rik	0.37	1.3	0.30	1.3	0.02	1.5

A_51_P514319	NM_172892	Slc13a4	0.07	1.4	0.25	1.3	0.01	1.5
A_51_P117226	AK046533	Zdhhc2	0.36	1.3	0.28	1.3	0.01	1.5
A_52_P645862	NM_177322	Agtr1a	0.13	1.4	0.35	1.3	0.01	1.5
A_51_P236267	NM_009183	St8sia4	0.83	1.1	0.38	1.3	0.01	1.5
A_55_P1971604	NM_001109758	Bcan	0.25	1.3	0.21	1.3	0.01	1.5
A_66_P118772	NM_001034863	Tmem136	0.51	1.2	0.31	1.3	0.01	1.5
A_55_P2130448	BY662175		0.94	1.0	0.37	1.3	0.01	1.5
A_55_P2093286	NM_007470	Apod	0.92	1.1	0.47	1.2	0.01	1.5
A_51_P272553	NM_011498	Bhlhe40	0.58	1.2	0.07	1.5	0.01	1.5
A_55_P2079009	NM_175316	Slco2b1	0.44	1.2	0.07	1.4	0.01	1.5
A_55_P2024555	NM_008903	Ppap2a	0.23	1.3	0.35	1.3	0.01	1.5
A_52_P325477	NM_053169	Trim16	0.08	1.4	0.21	1.3	0.01	1.5
A_55_P2010292	NM_009247	Serpina1e	0.84	1.1	0.31	1.3	0.01	1.5
A_55_P2083481	NM_001130412	Lpin1	0.34	1.2	0.18	1.3	0.01	1.5
A_52_P273821	NM_026179	Abhd5	0.60	1.1	0.20	1.3	0.01	1.5
A_52_P293120	NM_001081135	Prrg3	0.78	1.1	0.15	1.4	0.01	1.5
A_51_P256246	NM_025359	Tspan13	0.11	1.3	0.08	1.3	0.00	1.5
A_55_P1967539	NM_015755	Hunk	0.03	1.4	0.12	1.3	0.00	1.5
A_55_P2095360	NM_011576	Tfpi	0.07	1.3	0.07	1.3	0.00	1.5
A_55_P2037817	AK136939		0.16	1.3	0.02	1.4	0.00	1.5
A_55_P2129685	NM_001164053	Pkig	0.25	1.2	0.16	1.3	0.00	1.5
A_30_P01032951			0.00	1.4	0.02	1.3	0.00	1.5
A_66_P129188	NM_175662	Hist2h2ac	0.06	1.4	0.15	1.3	0.00	1.5
A_51_P179919	NM_172759	Ces5	0.19	1.2	0.07	1.3	0.00	1.5
A_65_P12104	NM_198967	Tmtc1	0.00	1.4	0.02	1.3	0.00	1.5
A_30_P01019396			0.08	1.2	0.02	1.3	0.00	1.5
A_52_P665675	NM_013454	Abca1	0.21	1.3	0.25	1.3	0.00	1.5
A_52_P130727	NM_177630	Ldoc1l	0.17	1.3	0.04	1.4	0.00	1.5
A_55_P2163928	NM_028375	Cxx1c	0.11	1.3	0.58	1.1	0.00	1.5
A_66_P112886	NM_011908	Ubl3	0.19	1.3	0.26	1.3	0.00	1.5
A_52_P380263	NM_013723	Podxl	0.10	1.4	0.39	1.3	0.00	1.5
A_55_P2084666	NM_175661	Hist1h2af	0.11	1.4	0.19	1.3	0.00	1.5
A_55_P2054628	NM_020252	Nrxn1	0.59	1.1	0.12	1.4	0.00	1.5
A_30_P01033082			0.09	1.3	0.05	1.4	0.00	1.5
A_30_P01025357			0.01	1.4	0.00	1.4	0.00	1.5
A_55_P2085295	NM_198411	Inf2	0.19	1.2	0.03	1.4	0.00	1.5
A_51_P163444	NM_025821	Carhsp1	0.00	1.4	0.00	1.4	0.00	1.5
A_30_P01025342			0.19	1.2	0.15	1.3	0.00	1.5
A_51_P432511	NM_145743	Lace1	0.05	1.3	0.05	1.3	0.00	1.5
A_51_P352968	NM_008538	Marcks	0.08	1.3	0.04	1.4	0.00	1.5
A_55_P2123502	NM_023844	Jam2	0.01	1.3	0.00	1.4	0.00	1.5
A_55_P1998797			0.65	1.1	0.26	1.3	0.00	1.5
A_55_P2048119	NM_146257	Slc29a4	0.70	1.1	0.25	1.2	0.00	1.5
A_51_P126626	NM_145459	Zfp503	0.02	1.3	0.01	1.3	0.00	1.5
A_51_P245368	NM_011075	Abcb1b	0.51	1.2	0.55	1.2	0.00	1.5
A_55_P1960496	NM_025800	Ppp1r2	0.20	1.3	0.09	1.4	0.00	1.5
A_51_P336599	NM_020574	Kcne3	0.29	1.2	0.07	1.4	0.00	1.5
A_30_P01029534			0.19	1.3	0.04	1.4	0.00	1.5
A_51_P265495	NM_010738	Ly6a	0.02	1.3	0.08	1.3	0.00	1.5

A_55_P1994042	NM_001139519	Zbp1	0.22	1.2	0.04	1.4	0.00	1.5
A_55_P2064328	NM_008481	Lama2	0.17	1.3	0.04	1.4	0.00	1.5
A_55_P2042016	XM_001479435	LOC100048058	0.45	1.2	0.42	1.2	0.00	1.5
A_55_P2158011	NM_026412	D2Ertd750e	0.08	1.3	0.15	1.3	0.00	1.5
A_55_P2083023	NM_133678	Sac3d1	0.01	1.4	0.04	1.4	0.00	1.5
A_51_P341918	NM_009366	Tsc22d1	0.12	1.3	0.05	1.4	0.00	1.5
A_52_P489778	NM_178688	Ablim1	0.02	1.4	0.01	1.4	0.00	1.5
A_55_P2115189	XM_001477969	Gm3796	0.09	1.3	0.21	1.3	0.00	1.5
A_30_P01027325			0.53	1.1	0.32	1.2	0.00	1.5
A_51_P248122	NM_133234	Bbc3	0.00	1.4	0.00	1.4	0.00	1.5
A_55_P2056496	NM_009387	Tk1	0.00	1.4	0.00	1.4	0.00	1.5
A_55_P1976744	XM_001478262	Gm4324	0.14	1.3	0.18	1.3	0.00	1.5
A_55_P1957245	XM_884146	Vmn2r-ps134	0.94	1.0	0.63	1.1	0.00	1.5
A_51_P374726	NM_008987	Ptx3	0.76	1.1	0.12	1.3	0.00	1.5
A_30_P01026572			0.01	1.4	0.01	1.4	0.00	1.5
A_52_P617327	NM_019466	Rcan1	0.13	1.3	0.05	1.4	0.00	1.5
A_55_P1975645	NM_198967	Tmtc1	0.00	1.3	0.01	1.4	0.00	1.5
A_55_P2183010	NM_001038887	P2rx7	0.01	1.3	0.00	1.4	0.00	1.5
A_55_P2096827	NM_181728	Art3	0.04	1.4	0.04	1.4	0.00	1.5
A_55_P2162136	NM_016957	Hmgn2	0.00	1.4	0.00	1.4	0.00	1.5
A_55_P2007273	NM_011132	Pole	0.06	1.4	0.02	1.4	0.00	1.5
A_51_P254425	NM_009644	Ahrr	0.01	1.3	0.02	1.4	0.00	1.5
A_52_P266132	NM_008013	Fgl2	0.15	1.3	0.10	1.4	0.00	1.5
A_52_P216672	NM_008940	Klk8	0.15	1.3	0.43	1.2	0.00	1.5
A_30_P01022991			0.02	1.3	0.00	1.4	0.00	1.5
A_66_P132295	NM_011576	Tfpi	0.22	1.3	0.42	1.2	0.00	1.5
A_51_P504354	NM_025980	Nrarp	0.05	1.3	0.01	1.4	0.00	1.5
A_55_P1964183	NM_001077694	Dysf	0.16	1.3	0.02	1.4	0.00	1.5
A_55_P2029558	NM_007420	Adrb2	0.10	1.3	0.07	1.4	0.00	1.5
A_55_P1981949	NM_175174	Klhl5	0.02	1.3	0.01	1.4	0.00	1.5
A_52_P108447	NM_031184	Glis2	0.06	1.3	0.45	1.2	0.00	1.5
A_30_P01018336			0.14	1.2	0.01	1.3	0.00	1.5
A_51_P268094	NM_009255	Serpine2	0.04	1.3	0.03	1.4	0.00	1.5
A_52_P217710	NM_008056	Fzd6	0.23	1.2	0.00	1.4	0.00	1.5
A_55_P2106150	NM_021790	Cenpk	0.14	1.2	0.04	1.3	0.00	1.5
A_55_P1967736	NM_027280	Nkd1	0.04	1.4	0.21	1.3	0.00	1.5
A_55_P2000833	NM_001013368	E2f8	0.01	1.4	0.04	1.4	0.00	1.5
A_55_P2142172	NM_001011761	Olf1229	0.00	1.4	0.01	1.4	0.00	1.5
A_55_P1992421	NM_008253	Hmgb3	0.59	1.1	0.07	1.4	0.00	1.5
A_52_P393314	NM_011027	P2rx7	0.00	1.4	0.00	1.4	0.00	1.5
A_55_P2175451	XM_001474886	Gm9791	0.02	1.3	0.00	1.3	0.00	1.5
A_55_P2157033	NM_019517	Bace2	0.32	1.2	0.04	1.4	0.00	1.5
A_30_P01021819			0.42	1.2	0.01	1.4	0.00	1.5
A_55_P2119985	NM_130862	Baiap2	0.62	1.1	0.25	1.3	0.00	1.5
A_51_P224564	NM_176833	Ppm1f	0.13	1.3	0.11	1.3	0.00	1.5
A_55_P2023762	NM_007936	Epha4	0.08	1.3	0.05	1.3	0.00	1.5
A_30_P01018981			0.00	1.4	0.06	1.3	0.00	1.5
A_55_P2026214	XM_620527	Gm5899	0.01	1.4	0.01	1.4	0.00	1.5
A_52_P267824	NM_197999	2210023G05Rik	0.14	1.3	0.42	1.2	0.00	1.5

A_55_P2171086	XM_001479969	LOC100048394	0.53	1.2	0.17	1.4	0.00	1.5
A_52_P420466	NM_175660	Hist1h2ab	0.01	1.4	0.03	1.4	0.00	1.5
A_51_P449824	XM_001471750	Exoc3l2	0.41	1.2	0.12	1.3	0.00	1.5
A_55_P2085181	NM_028083	Chaf1b	0.25	1.2	0.11	1.3	0.00	1.5
A_55_P2112445	NM_011536	Tbx4	0.12	1.3	0.21	1.3	0.00	1.5
A_51_P282508	NM_007484	Rhoc	0.64	1.1	0.39	1.2	0.00	1.5
A_55_P1959869	NM_025800	Ppp1r2	0.73	1.1	0.09	1.3	0.00	1.5
A_52_P198435	NM_207246	Rasgrp3	0.06	1.4	0.17	1.3	0.00	1.5
A_55_P2244677	AK032738	6720422M22Rik	0.78	1.1	0.27	1.2	0.00	1.5
A_30_P01031572			0.05	1.4	0.09	1.4	0.00	1.5
A_55_P2099742	NM_011888	Ccl19	0.41	1.2	0.10	1.4	0.00	1.5
A_55_P1982817	XR_002167	Gm9115	0.82	1.1	0.26	1.3	0.00	1.5
A_30_P01025572			0.03	1.4	0.07	1.4	0.00	1.5
A_55_P2012734	NM_178699	B930041F14Rik	0.61	1.1	0.32	1.2	0.00	1.5
A_55_P1973560			0.03	1.4	0.02	1.4	0.00	1.5
A_55_P2054027	NM_019950	Chst5	0.12	1.3	0.06	1.3	0.00	1.5
A_55_P2080163	NM_025821	Carhsp1	0.01	1.3	0.01	1.3	0.00	1.5
A_51_P371091	NM_178593	Rcsd1	0.70	1.1	0.61	1.1	0.00	1.5
A_51_P363801	NM_023217	Pgpep1	0.00	1.4	0.01	1.4	0.00	1.5
A_30_P01030475			0.00	2.1	0.21	1.6	0.22	1.4
A_30_P01023291			0.04	1.8	0.25	1.5	0.26	1.4
A_51_P112355	NM_018738	Igtp	0.04	1.6	0.45	1.3	0.18	1.4
A_55_P2133195	NM_001033767	Gm4951	0.02	1.6	0.07	1.6	0.06	1.4
A_51_P393958	NM_025995	Fbxo5	0.00	1.6	0.01	1.5	0.00	1.4
A_52_P522372	NM_175503	Aard	0.00	1.6	0.14	1.4	0.02	1.4
A_52_P588881	NM_001033484	Iqgap3	0.04	1.5	0.13	1.4	0.04	1.4
A_55_P2192662	NM_001122899	Lepr	0.04	1.5	0.28	1.3	0.08	1.4
A_52_P601021	NM_026979	C1qtnf2	0.04	1.5	0.78	1.1	0.07	1.4
A_55_P2051334	NR_004446	Gm7035	0.03	1.5	0.27	1.3	0.05	1.4
A_51_P427516	NM_019576	Thsd1	0.02	1.5	0.15	1.4	0.03	1.4
A_55_P2070079	NM_010708	Lgals9	0.01	1.5	0.15	1.4	0.02	1.4
A_51_P264695	NM_016669	Crym	0.01	1.5	0.48	1.2	0.03	1.4
A_55_P2164469	NM_001163318	Gm11744	0.01	1.5	0.19	1.4	0.04	1.4
A_55_P2088401	NM_010399	H2-T9	0.01	1.5	0.12	1.3	0.01	1.4
A_30_P01025883			0.00	1.5	0.06	1.3	0.01	1.4
A_55_P2039324	NM_007634	Ccnf	0.00	1.5	0.00	1.6	0.00	1.4
A_55_P2021114	NM_010500	Ier5	0.00	1.5	0.00	1.5	0.00	1.4
A_55_P2294184	NM_031997	Tmem2	0.00	1.5	0.00	1.5	0.01	1.4
A_55_P2068663	NM_019641	Stmn1	0.00	1.5	0.08	1.3	0.00	1.4
A_55_P2187034			0.00	1.5	0.03	1.3	0.00	1.4
A_55_P1971599	NM_007529	Bcan	0.15	1.4	0.01	1.7	0.07	1.4
A_51_P361830	NM_144945	Lgi2	0.47	1.2	0.03	1.6	0.05	1.4
A_55_P1990066			0.04	1.4	0.02	1.6	0.03	1.4
A_55_P2111380	NM_008729	Ctnnd2	0.02	1.3	0.00	1.6	0.00	1.4
A_55_P2095508	XM_001478695	LOC100047693	0.14	1.3	0.05	1.5	0.04	1.4
A_51_P322972	NM_145419	Hkdc1	0.11	1.4	0.04	1.5	0.05	1.4
A_55_P2083919	NM_175549	Robo2	0.09	1.3	0.03	1.5	0.01	1.4
A_55_P2056729	NM_008342	Igfbp2	0.03	1.4	0.01	1.5	0.00	1.4
A_51_P477121	NM_021451	Pmaip1	0.00	1.4	0.00	1.5	0.00	1.4

A_51_P344566	NM_011121	Plk1	0.01	1.3	0.00	1.5	0.00	1.4
A_51_P258493	NM_011067	Per3	0.04	1.3	0.00	1.5	0.00	1.4
A_51_P366672	NM_153170	Slc36a2	0.00	1.4	0.00	1.5	0.00	1.4
A_51_P214985	NM_145492	Zfp521	0.01	1.3	0.00	1.5	0.00	1.4
A_30_P01033274			0.20	1.2	0.00	1.5	0.00	1.4
A_55_P2169659	AK083237		0.01	1.5	0.41	1.2	0.03	1.3
A_51_P346641	BC025879		0.22	1.2	0.00	1.7	0.08	1.3
A_55_P1992834	NM_007706	Socs2	0.25	1.2	0.01	1.5	0.04	1.3
A_55_P2055324	NM_016907	Spint1	0.30	1.2	0.01	1.5	0.03	1.3
A_52_P337259	NM_013905	Heyl	0.15	1.3	0.00	1.5	0.13	1.3
A_51_P184223	NM_053132	Pcdhb7	0.88	1.0	0.00	1.5	0.01	1.3
A_30_P01020841			0.03	1.8	0.38	1.4	0.55	1.2
A_55_P2027999	NM_001146100	Hk1	0.74	1.2	0.03	2.2	0.69	1.2
A_52_P425092			0.44	1.2	0.04	1.5	0.34	1.2
A_51_P207591	NM_013473	Anxa8	0.02	-1.5	0.86	-1.1	0.84	1.1
A_55_P2137828	NM_022420	Gprc5b	0.29	1.6	0.00	2.6	0.96	1.0
A_55_P2160416	NM_028765	Acox1	0.47	-1.5	0.01	-2.9	0.96	-1.0
A_55_P2214124	BC019425		0.02	1.7	0.32	1.4	0.89	-1.1
A_55_P2180744	NM_153508	Clstn3	0.00	-1.5	0.10	-1.4	0.04	-1.3
A_55_P1957865	XM_001472293	Gm8090	0.00	-1.5	0.07	-1.4	0.07	-1.3
A_55_P2023537	XM_001476520	LOC100046290	0.00	-1.6	0.05	-1.5	0.09	-1.3
A_55_P2141479	NR_004414	Rnu2	0.01	-1.7	0.25	-1.4	0.19	-1.3
A_51_P110341	NM_170727	Scgb3a1	0.02	-2.7	0.37	-1.8	0.70	-1.3
A_66_P115531	NM_145151	Crebzf	0.98	-1.0	0.04	-1.5	0.04	-1.3
A_55_P1999992	NM_172693	Galnt12	0.05	-1.3	0.00	-1.5	0.01	-1.3
A_55_P2144597	NM_001123370	9030025P20Rik	0.24	-1.2	0.00	-1.6	0.02	-1.3
A_51_P501844	NM_175475	Cyp26b1	0.48	-1.6	0.04	-2.9	0.71	-1.3
A_51_P268069	NM_009189	Six1	0.04	-1.6	0.54	-1.2	0.08	-1.4
A_55_P2007088	NM_023270	Rnf128	0.04	-1.6	0.34	-1.3	0.13	-1.4
A_55_P2181191	NM_007569	Btg1	0.03	-1.7	0.18	-1.6	0.18	-1.4
A_30_P01018771			0.93	1.0	0.05	-1.5	0.01	-1.4
A_30_P01023251			0.99	-1.0	0.05	-1.5	0.03	-1.4
A_55_P2279807	AK160312	6720427I07Rik	0.92	1.1	0.05	-1.5	0.03	-1.4
A_30_P01022612			0.63	-1.1	0.04	-1.5	0.03	-1.4
A_55_P2426941	BC040234	Gprin3	0.21	-1.2	0.01	-1.5	0.01	-1.4
A_51_P517430	NM_007639	Cd1d1	0.01	-1.3	0.00	-1.5	0.00	-1.4
A_52_P708792	XM_489019	Gm5547	0.00	-1.4	0.00	-1.5	0.00	-1.4
A_55_P2156425	NM_026815	Upk1a	0.20	-1.3	0.02	-1.6	0.03	-1.4
A_51_P273609	NM_146125	Itпка	0.05	-1.5	0.05	-1.6	0.03	-1.5
A_51_P227445	AK008147		0.04	-1.5	0.36	-1.3	0.02	-1.5
A_30_P01024606			0.04	-1.5	0.06	-1.5	0.01	-1.5
A_55_P1966383	XM_001475163	Gm2936	0.02	-1.5	0.18	-1.3	0.00	-1.5
A_55_P2088720	XM_001477698	Gm3651	0.01	-1.5	0.46	-1.2	0.00	-1.5
A_55_P2122130	AK030294		0.01	-1.5	0.09	-1.4	0.00	-1.5
A_55_P2017362	NM_207203	BC068157	0.01	-1.5	0.08	-1.4	0.00	-1.5
A_66_P101360	NM_172916	Hydin	0.01	-1.5	0.05	-1.4	0.00	-1.5
A_55_P1966749	NM_028775	Cyp2s1	0.04	-1.6	0.19	-1.5	0.02	-1.5
A_66_P137660	NM_177377	Fam166b	0.01	-1.7	0.06	-1.6	0.01	-1.5
A_52_P281702	NM_010518	Igfbp5	0.00	-1.8	0.18	-1.3	0.00	-1.5

A_52_P514407	NM_013793	Klra15	0.16	-1.4	0.04	-1.5	0.01	-1.5
A_55_P1985623	NM_029600	Abcc3	0.16	-1.3	0.04	-1.5	0.00	-1.5
A_66_P139546	NM_008344	Igfbp6	0.13	-1.3	0.03	-1.5	0.00	-1.5
A_30_P01017637			0.17	-1.3	0.02	-1.5	0.00	-1.5
A_30_P01029746			0.87	-1.1	0.01	-1.5	0.00	-1.5
A_51_P139069	NM_172372	Wdr45	0.19	-1.2	0.00	-1.5	0.00	-1.5
A_55_P1992045	NM_054043	Msi2	0.00	-1.4	0.00	-1.5	0.00	-1.5
A_30_P01031307			0.44	-1.1	0.00	-1.5	0.00	-1.5
A_30_P01020135			0.93	-1.0	0.03	-1.6	0.01	-1.5
A_52_P650387	NM_001045530	Ccnj1	0.24	-1.3	0.02	-1.6	0.00	-1.5
A_55_P2293351	AK082896	C430010C01	0.36	-1.2	0.01	-1.6	0.00	-1.5
A_30_P01022310			0.11	-1.4	0.00	-1.6	0.00	-1.5
A_55_P2372228	DT902180	A430104N18Rik	0.80	-1.1	0.00	-1.7	0.00	-1.5
A_55_P2028365	NM_001170788	Lrrc36	0.34	-1.3	0.07	-1.5	0.04	-1.5
A_55_P2292046	AK084291	D230018H15Rik	0.95	1.0	0.52	-1.3	0.04	-1.5
A_55_P1965101	NM_001081643	Xlr3b	0.54	-1.2	0.46	-1.3	0.04	-1.5
A_55_P2190152	AK054449	4921509J17Rik	0.25	-1.4	0.43	-1.3	0.04	-1.5
A_55_P2032916	NM_139142	Slc6a20a	0.96	-1.0	0.65	-1.2	0.04	-1.5
A_55_P2017636	NM_011580	Thbs1	0.70	-1.2	0.91	-1.1	0.04	-1.5
A_52_P244193	NM_009846	Cd24a	0.19	-1.4	0.12	-1.5	0.04	-1.5
A_55_P2105808	NM_146186	Wdr62	0.91	-1.1	0.09	-1.5	0.04	-1.5
A_52_P222230	XM_001476722		0.89	-1.1	0.60	-1.2	0.03	-1.5
A_51_P150710	NM_152839	Igj	0.80	-1.1	0.85	-1.1	0.03	-1.5
A_55_P2005743	NM_026257	Ubxn11	0.06	-1.5	0.12	-1.5	0.03	-1.5
A_51_P419226	NM_025393	S100a14	0.23	-1.4	0.60	-1.2	0.03	-1.5
A_52_P461343	NM_023478	Upk3a	0.26	-1.4	0.82	-1.1	0.03	-1.5
A_55_P2089710	NM_007904	Ednrb	0.62	1.2	0.55	-1.2	0.03	-1.5
A_51_P509643	NM_001042451	Snca	0.97	1.0	0.99	1.0	0.03	-1.5
A_51_P131164	NM_027728	Enkur	0.10	-1.5	0.16	-1.5	0.03	-1.5
A_55_P2153783	NM_010231	Fmo1	0.64	1.2	0.23	-1.4	0.03	-1.5
A_55_P1965030	NM_001003915	Slc5a12	0.74	-1.1	0.18	-1.4	0.03	-1.5
A_55_P2078138	NM_172709	Otop1	0.77	-1.1	0.68	-1.2	0.02	-1.5
A_30_P01032357			0.77	-1.1	0.65	-1.2	0.02	-1.5
A_51_P196925	NM_009142	Cx3cl1	0.39	-1.2	0.24	-1.3	0.01	-1.5
A_55_P2009861	XM_001472138	Gm2015	0.02	-1.4	0.17	-1.3	0.01	-1.5
A_51_P116601	NM_172447	A330021E22Rik	0.11	-1.4	0.09	-1.4	0.01	-1.5
A_55_P2043337	NM_009937	Colq	0.93	-1.0	0.95	1.0	0.01	-1.5
A_51_P371174	NM_013863	Bag3	0.31	-1.3	0.23	-1.4	0.01	-1.5
A_55_P2022569	NM_008778	Pak3	0.13	-1.4	0.17	-1.4	0.01	-1.5
A_55_P1992617	NM_019985	Clec1b	0.67	1.1	0.97	-1.0	0.01	-1.5
A_55_P1980883	NM_001146351	Ephb6	0.53	-1.2	0.19	-1.4	0.01	-1.5
A_55_P2166985	NM_207677	Dedd2	0.33	-1.3	0.17	-1.4	0.01	-1.5
A_55_P1979674	NM_011772	Ikzf4	0.39	-1.2	0.42	-1.2	0.01	-1.5
A_55_P2076805	AK129022		0.24	-1.3	0.31	-1.3	0.01	-1.5
A_55_P2266977	NM_021414	Ahcyl2	0.45	-1.2	0.10	-1.3	0.01	-1.5
A_30_P01022284			0.93	-1.0	0.16	-1.3	0.00	-1.5
A_30_P01030436			0.14	-1.2	0.08	-1.3	0.00	-1.5
A_55_P2096422	NM_008381	Inhbb	0.05	-1.3	0.12	-1.3	0.00	-1.5
A_51_P111612	NM_001042592	Arrdc4	0.15	-1.3	0.05	-1.4	0.00	-1.5

A_66_P128079	AK166854	Krt8	0.26	-1.3	0.36	-1.2	0.00	-1.5
A_55_P2063465	NM_013691	Thbs3	0.38	-1.2	0.18	-1.3	0.00	-1.5
A_55_P2169839	AK154941		0.43	-1.2	0.05	-1.4	0.00	-1.5
A_30_P01031627			0.42	-1.2	0.16	-1.3	0.00	-1.5
A_55_P2408415	NR_001461	Kcnq1ot1	0.07	-1.4	0.26	-1.3	0.00	-1.5
A_52_P541270	NM_177687	Crebl2	0.07	-1.3	0.04	-1.3	0.00	-1.5
A_51_P446477	NM_171826	Cldnd1	0.11	-1.3	0.12	-1.4	0.00	-1.5
A_55_P2212027	NM_011682	Utn	0.14	-1.3	0.26	-1.3	0.00	-1.5
A_66_P108019	NM_144835	Heatrl	0.15	-1.2	0.01	-1.4	0.00	-1.5
A_52_P554703	NM_183183	Gprin3	0.72	-1.1	0.22	-1.3	0.00	-1.5
A_55_P2159259	NM_013584	Lifr	0.24	-1.2	0.03	-1.4	0.00	-1.5
A_66_P128434	NM_001122733	Kit	0.99	1.0	0.65	-1.2	0.00	-1.5
A_55_P2136657	NM_013691	Thbs3	0.26	-1.2	0.21	-1.3	0.00	-1.5
A_55_P2413458	NM_023755	Tcfcp2l1	0.47	-1.2	0.60	-1.2	0.00	-1.5
A_55_P2286493	AK016664	4933405E24Rik	0.18	-1.3	0.20	-1.3	0.00	-1.5
A_66_P105801	NM_010513	Igf1r	0.08	-1.3	0.03	-1.3	0.00	-1.5
A_52_P274496	NM_183180	Tspan18	0.51	-1.1	0.03	-1.4	0.00	-1.5
A_55_P2017789	NM_001008700	Il4ra	0.93	-1.0	0.37	-1.2	0.00	-1.5
A_51_P475995	NM_178060	Thra	0.76	-1.1	0.28	-1.2	0.00	-1.5
A_51_P142923	NM_013490	Chka	0.30	-1.2	0.01	-1.3	0.00	-1.5
A_55_P2165869	NM_009883	Cebpb	0.01	-1.4	0.16	-1.3	0.00	-1.5
A_30_P01019232			0.85	-1.1	0.08	-1.4	0.00	-1.5
A_55_P2035315	NM_145839	Rasgef1b	0.71	-1.1	0.23	-1.3	0.00	-1.5
A_55_P2140212	XM_001474216	Gm2627	0.02	-1.5	0.30	-1.3	0.01	-1.6
A_30_P01032068			0.01	-1.5	0.00	-1.6	0.00	-1.6
A_55_P2029746	XM_001472371	1200016E24Rik	0.00	-1.6	0.32	-1.3	0.00	-1.6
A_55_P2363030	BC022771	Gm9853	0.02	-1.7	0.30	-1.4	0.01	-1.6
A_55_P2003824	NM_009714	Asgr1	0.00	-1.7	0.01	-1.7	0.03	-1.6
A_55_P2031167	NM_010107	Efna1	0.04	-1.4	0.01	-1.5	0.00	-1.6
A_55_P2069425	NM_133923	Ttll3	0.30	-1.2	0.01	-1.5	0.00	-1.6
A_30_P01025798			1.00	1.0	0.04	-1.6	0.00	-1.6
A_30_P01029720			0.98	-1.0	0.02	-1.6	0.01	-1.6
A_51_P234692	NR_003513	Neat1	0.91	-1.1	0.01	-1.6	0.00	-1.6
A_55_P2125613	NM_001101486	Fam71f2	0.15	-1.2	0.00	-1.6	0.00	-1.6
A_55_P2053258	NM_027354	Wdr51a	0.64	-1.2	0.27	-1.5	0.04	-1.6
A_51_P356055	NM_175012	Grp	0.83	-1.1	0.67	-1.2	0.04	-1.6
A_55_P2106911	NM_021279	Wnt1	0.15	-1.5	0.34	-1.4	0.03	-1.6
A_55_P2015832	NM_001005422	Gm1574	0.27	-1.4	0.55	-1.3	0.02	-1.6
A_55_P2068247	XM_001473755	Gm2488	0.24	-1.4	0.53	-1.3	0.02	-1.6
A_55_P2170349	NM_053152	Klra22	0.25	-1.4	0.15	-1.5	0.02	-1.6
A_55_P2021089	XM_001472541	Ighg	0.31	-1.3	0.27	-1.4	0.02	-1.6
A_51_P422369	NM_001013022	Odf3b	0.18	-1.4	0.15	-1.5	0.01	-1.6
A_66_P136389	NM_007560	Bmpr1b	0.09	-1.5	0.33	-1.4	0.01	-1.6
A_66_P108380	NM_172447	A330021E22Rik	0.24	-1.3	0.28	-1.4	0.01	-1.6
A_55_P2273929	AK076353	4732457N14	0.48	-1.2	0.13	-1.4	0.01	-1.6
A_55_P2035038	XM_001473590	Gm2437	0.27	-1.3	0.62	-1.2	0.01	-1.6
A_55_P2028734	NM_013794	Klra16	0.29	-1.3	0.08	-1.5	0.01	-1.6
A_55_P2004536	NM_010649	Klra4	0.19	-1.4	0.17	-1.4	0.00	-1.6
A_55_P2209053	AK013461	2900001G08Rik	0.17	-1.3	0.09	-1.4	0.00	-1.6

A_30_P01027510			0.59	-1.2	0.11	-1.4	0.00	-1.6
A_55_P2125557	NM_010574	Irx2	0.27	-1.2	0.07	-1.3	0.00	-1.6
A_55_P1977875	NM_176849	Arglu1	0.07	-1.4	0.32	-1.3	0.00	-1.6
A_55_P2169669	NM_001113530	Csf1	0.04	-1.3	0.08	-1.3	0.00	-1.6
A_55_P2017982	NM_001170669	Pde8b	0.60	-1.1	0.03	-1.4	0.00	-1.6
A_52_P799815	NM_001025606	Tmem171	0.07	-1.4	0.12	-1.4	0.00	-1.6
A_52_P312102	AK129018	Sema3g	0.22	-1.3	0.07	-1.4	0.00	-1.6
A_51_P279062	NM_027763	Trem1	0.61	1.1	0.39	-1.2	0.00	-1.6
A_55_P2175469	NM_001081345	Chd2	0.09	-1.4	0.15	-1.4	0.00	-1.6
A_55_P2020612	NM_025404	Arl4d	0.19	-1.3	0.15	-1.4	0.00	-1.6
A_51_P114616	NM_016767	Batf	0.44	-1.2	0.26	-1.3	0.00	-1.6
A_52_P233441	NM_008090	Gata2	0.21	-1.3	0.04	-1.4	0.00	-1.6
A_55_P2126557	XM_619973	Gm5858	0.32	-1.2	0.09	-1.4	0.00	-1.6
A_51_P227392	NM_133955	Rhou	0.02	-1.6	0.14	-1.5	0.00	-1.7
A_55_P2116650	NR_002860	A130040M12Rik	0.02	-1.6	0.60	-1.2	0.00	-1.7
A_51_P156955	NM_013459	Cfd	0.00	-4.8	0.58	-1.7	0.36	-1.7
A_30_P01021604			0.24	-1.2	0.01	-1.5	0.00	-1.7
A_55_P2168023	NM_001025379	Sema3g	0.62	-1.2	0.05	-1.6	0.00	-1.7
A_55_P2049771	XM_001480935	Gm4621	0.17	-1.4	0.03	-1.6	0.00	-1.7
A_30_P01029918			0.27	-1.3	0.03	-1.6	0.00	-1.7
A_30_P01032544			0.37	-1.3	0.02	-1.6	0.00	-1.7
A_55_P2347976	NR_029382	Mirhg1	0.47	-1.2	0.00	-1.6	0.00	-1.7
A_51_P283473	NM_026271	Fibin	0.70	-1.2	0.04	-1.7	0.00	-1.7
A_51_P125205	NM_007472	Aqp1	0.26	-1.3	0.00	-1.8	0.00	-1.7
A_30_P01021631			0.82	-1.1	0.00	-1.9	0.00	-1.7
A_55_P2370384	NR_028123	1600029I14Rik	0.60	-1.3	0.64	-1.3	0.04	-1.7
A_55_P2025655	CB248850		0.22	-1.5	0.11	-1.8	0.03	-1.7
A_55_P2002517	NM_001077361	Fhl1	1.00	-1.0	0.91	-1.1	0.03	-1.7
A_55_P1985950	NM_133213	Xpnpep2	0.88	1.1	0.12	-1.6	0.01	-1.7
A_51_P509679	XM_001474025		1.00	1.0	0.81	-1.1	0.01	-1.7
A_51_P343429	NM_026331	Slc25a37	0.69	-1.2	0.40	-1.3	0.01	-1.7
A_55_P2167803	NM_001014423	Abi3bp	0.50	-1.2	0.18	-1.4	0.00	-1.7
A_55_P2340593	AK007545	1810019D21Rik	0.50	-1.2	0.06	-1.5	0.00	-1.7
A_51_P172502	NM_001012477	Cxcl12	0.61	-1.2	0.10	-1.5	0.00	-1.7
A_51_P199352	XM_483917	2310015B20Rik	0.56	-1.2	0.21	-1.4	0.00	-1.7
A_51_P428372	NM_023785	Ppbp	0.41	1.2	0.47	-1.3	0.00	-1.7
A_66_P131433			0.19	-1.4	0.09	-1.5	0.00	-1.7
A_51_P305843	NM_025844	Chordc1	0.34	-1.3	0.12	-1.5	0.00	-1.7
A_55_P2035320	NM_017373	Nfil3	0.11	-1.4	0.09	-1.5	0.00	-1.7
A_55_P2403769	BB498095	Al481121	0.34	-1.2	0.00	-1.6	0.00	-1.8
A_52_P161495	NM_009744	Bcl6	0.12	-1.3	0.00	-1.6	0.00	-1.8
A_30_P01031764			0.20	-1.3	0.00	-1.6	0.00	-1.8
A_51_P439085	NM_023516	2310016C08Rik	0.26	-1.3	0.02	-1.7	0.00	-1.8
A_51_P155323	NM_010406	Hc	0.49	-1.2	0.01	-1.7	0.00	-1.8
A_55_P2058783	NM_023516	2310016C08Rik	0.27	-1.3	0.01	-1.7	0.00	-1.8
A_51_P247637	NM_080563	Rnf144a	0.45	-1.2	0.00	-1.8	0.00	-1.8
A_52_P33382	XM_356935	Gm5226	0.85	1.1	0.62	-1.3	0.03	-1.8
A_66_P138584	NM_029797	Mnd1	0.92	-1.1	0.73	-1.2	0.01	-1.8
A_51_P196972	NM_011403	Slc4a1	0.99	1.0	0.86	-1.1	0.01	-1.8

A_55_P2184023	XM_355197	Dnahc7a	0.09	-1.6	0.23	-1.5	0.00	-1.8
A_52_P577662	NM_007904	Ednrb	0.77	1.1	0.15	-1.6	0.00	-1.8
A_51_P265571	NM_009627	Adm	0.44	-1.3	0.07	-1.6	0.00	-1.8
A_51_P447976	NM_001142952	Fam46c	0.28	-1.3	0.14	-1.5	0.00	-1.8
A_51_P431329	NM_007606	Car3	0.00	-2.7	0.66	-1.4	0.07	-1.9
A_51_P279693	NM_009992	Cyp1a1	0.00	-4.3	0.00	-3.7	0.02	-1.9
A_55_P1963533	NM_001003672	Pcdhac2	0.64	-1.1	0.03	-1.5	0.00	-1.9
A_55_P2056344	NM_001142539	Gm9992	0.89	-1.1	0.10	-1.9	0.03	-1.9
A_55_P2131766	NM_023665	D4Wsu53e	0.47	-1.4	0.13	-1.7	0.01	-1.9
A_55_P2087985			0.55	-1.2	0.12	-1.6	0.00	-1.9
A_55_P2087984	NM_001164671	Dnaja1	0.72	-1.2	0.25	-1.5	0.00	-1.9
A_55_P2050226	AY072938	Ccr1	0.79	-1.1	0.08	-1.4	0.00	-1.9
A_51_P505617	NM_008365	Il18r1	0.49	-1.2	0.15	-1.4	0.00	-1.9
A_52_P229052	NM_019790	Tmeff2	0.74	-1.2	0.23	-1.5	0.00	-1.9
A_55_P2038358	NM_012006	Acot1	0.14	-1.4	0.15	-1.5	0.00	-1.9
A_52_P340073	NM_010111	Efnb2	0.08	-1.4	0.00	-1.6	0.00	-2.0
A_55_P1990032	NM_009141	Cxcl5	0.71	-1.3	0.18	-1.9	0.03	-2.0
A_55_P2301312	NM_146254	Wdr78	0.10	-1.8	0.36	-1.6	0.02	-2.0
A_55_P2135967	XM_979793	Gm7816	0.66	-1.2	0.14	-1.6	0.00	-2.0
A_55_P1993404			0.65	-1.2	0.13	-1.6	0.00	-2.0
A_51_P179258	NM_001161665	Kif26b	0.22	-1.4	0.02	-1.8	0.00	-2.1
A_51_P153486	NM_018808	Dnajb1	0.20	-1.4	0.01	-1.9	0.00	-2.1
A_55_P2176963	NM_013559	Hsph1	0.69	-1.3	0.60	-1.4	0.02	-2.1
A_55_P2003513	NM_013559	Hsph1	0.58	-1.4	0.61	-1.4	0.00	-2.2
A_55_P2097518	NM_001080943	Zdhhc22	0.70	-1.2	0.06	-2.0	0.00	-2.5
A_51_P331328	NM_026730	Gpihbp1	0.32	-1.3	0.00	-1.8	0.00	-2.6
A_55_P2408588	NM_007489	Arntl	0.11	-1.6	0.00	-2.5	0.00	-2.8
A_52_P257625	NM_023612	Esm1	0.00	-1.7	0.01	-1.9	0.00	-3.0
A_55_P2000973	NM_181529	Syt15	0.32	-1.3	0.00	-2.0	0.00	-3.1
A_52_P381484	NM_133903	Spon2	0.08	-1.7	0.01	-2.0	0.00	-3.3
A_55_P2068459	NM_010479	Hspa1a	0.88	-1.1	0.15	-1.9	0.00	-3.3

3.3.7 IP Lung. Significant probe list. List of all significantly differentially expressed probes in at least 1 treatment group (FDR $P \leq 0.05$, fold change ± 1.5) in response to sub-chronic oral exposure to 12.5, 25, and 50 mg/kg-bw/day indeno(123,cd)pyrene in the lung. The list is sorted from highest to lowest fold change in the 50 mg/kg-bw/day treatment group.

Agilent Probe	Accession Number	Gene Symbol	12.5 mg/kg-bw/day		25 mg/kg-bw/day		50 mg/kg-bw/day	
			FDR P value	Fold change	FDR P value	Fold change	FDR P value	Fold change
A_51_P426353	NM_009463	Ucp1	0.00	-7.6	0.00	-7.1	0.00	-7.7
A_51_P336833	NM_024406	Fabp4	0.00	-4.4	0.00	-5.8	0.00	-4.8
A_51_P199168	NM_007702	Cidea	0.00	-2.6	0.00	-2.7	0.00	-3.0
A_66_P121110	NM_011044	Pck1	0.00	-2.6	0.00	-3.2	0.00	-3.0
A_55_P2018666	NM_009381	Thrsp	0.02	-2.5	0.00	-4.6	0.00	-3.8
A_52_P423814	NM_007751	Cox8b	0.04	-2.3	0.01	-2.5	0.00	-2.7
A_30_P01033043			0.00	-2.2	0.02	-1.7	0.00	-1.9
A_51_P244497	NM_175640	Plin1	0.04	-2.2	0.00	-2.9	0.00	-2.7

A_52_P592909	NM_026384	Dgat2	0.00	-2.1	0.00	-2.1	0.00	-2.2
A_55_P2056344	NM_001142539	Gm9992	0.00	-2.1	0.00	-1.9	0.00	-2.5
A_55_P2068459	NM_010479	Hspa1a	0.02	-2.1	0.00	-3.5	0.00	-4.6
A_30_P01018650			0.00	-2.0	0.04	-1.6	0.01	-1.6
A_51_P350453	NM_013743	Pdk4	0.00	-2.0	0.01	-1.9	0.00	-2.4
A_55_P2107785	XM_001475876	Gm13105	0.05	-2.0	0.00	-3.1	0.00	-2.4
A_30_P01019643			0.00	-1.9	0.01	-1.6	0.00	-1.7
A_55_P2403769	BB498095	Al481121	0.00	-1.8	0.01	-1.6	0.00	-2.2
A_55_P2124461	XM_001472850	Gm2251	0.02	-1.8	0.00	-2.5	0.00	-2.1
A_51_P346964	NM_029844	Mrap	0.04	-1.8	0.00	-1.9	0.00	-1.8
A_30_P01029645			0.00	-1.7	0.05	-1.4	0.02	-1.5
A_55_P1958840	XM_001474656	Gm5811	0.00	-1.7	0.01	-1.8	0.00	-1.7
A_55_P1965030	NM_001003915	Slc5a12	0.00	-1.7	0.01	-1.6	0.00	-2.0
A_55_P2140212	XM_001474216	Gm2627	0.02	-1.7	0.00	-2.1	0.01	-1.7
A_30_P01026062			0.00	-1.6	0.05	-1.3	0.01	-1.4
A_51_P283473	NM_026271	Fibin	0.00	-1.6	0.10	-1.4	0.00	-1.9
A_30_P01019556			0.00	-1.6	0.04	-1.4	0.01	-1.5
A_52_P670812	NR_028575	Snord123	0.04	-1.6	0.19	-1.3	0.06	-1.4
A_51_P463440	NM_130450	Elovl6	0.04	-1.6	0.00	-1.8	0.00	-1.6
A_30_P01023130			0.04	-1.6	0.04	-1.4	0.06	-1.4
A_55_P2105808	NM_146186	Wdr62	0.00	-1.5	0.00	-1.5	0.00	-1.6
A_30_P01029468			0.00	-1.5	0.09	-1.3	0.01	-1.4
A_55_P2178137	NM_011889	41155.0	0.00	-1.5	0.00	-1.6	0.00	-1.9
A_55_P2020612	NM_025404	Arl4d	0.00	-1.5	0.00	-1.5	0.00	-1.8
A_55_P2027812	NM_001166369	2900062L11Rik	0.02	-1.5	0.05	-1.4	0.00	-1.6
A_30_P01017626			0.00	1.5	0.00	1.6	0.00	1.5
A_51_P185660	NM_011338	Ccl9	0.02	1.5	0.71	1.1	0.02	1.4
A_66_P115580	AK076360		0.00	1.7	0.00	1.8	0.00	2.5
A_51_P447189	AK041326	1700030C10Rik	0.04	1.8	0.13	1.5	0.02	1.6
A_55_P1966774	XM_893705	Gm6930	0.02	2.5	0.92	-1.1	0.02	2.3
A_51_P326191	NM_009251	Serpina3g	0.00	2.7	0.53	1.3	0.00	2.9
A_55_P2060922	NM_153131	Unc5a	0.00	3.1	0.06	2.1	0.00	3.3
A_55_P2142226	NM_001034870	Serpina3h	0.00	5.0	0.78	-1.3	0.00	5.0
A_51_P156955	NM_013459	Cfd	0.71	-1.6	0.00	-6.4	0.05	-2.8
A_52_P413395	NM_025540	Slc	0.20	-3.7	0.00	-6.3	0.03	-3.8
A_51_P431329	NM_007606	Car3	0.22	-2.4	0.00	-5.9	0.00	-3.7
A_55_P2173952	NM_001164171	Myh6	0.31	-3.2	0.01	-5.5	0.13	-2.9
A_51_P193185	NM_013593	Mb	0.42	-2.2	0.01	-3.9	0.05	-2.8
A_55_P2107045	NM_010858	Myl4	0.28	-2.9	0.02	-3.8	0.06	-2.9
A_51_P202331	NM_011126	Plunc	0.51	-2.2	0.04	-3.7	0.00	-5.2
A_65_P10195	NM_022879	Myl7	0.28	-2.7	0.02	-3.7	0.06	-2.8
A_51_P458451	NM_009605	Adipoq	0.26	-2.2	0.00	-3.3	0.02	-2.6
A_51_P416858	NM_021285	Myl1	0.11	-2.9	0.02	-3.1	0.09	-2.2
A_55_P1984806	NM_022984	Retn	0.49	-1.7	0.00	-3.1	0.03	-2.2
A_51_P165293	NM_198415	Ckmt2	0.22	-2.5	0.02	-3.0	0.25	-1.8
A_55_P1953143	NM_144783	Wt1	0.31	-1.6	0.00	-3.0	0.01	-2.2
A_51_P133684	NM_013808	Csrp3	0.32	-2.3	0.04	-2.9	0.10	-2.3
A_51_P386983	NM_009406	Tnni3	0.32	-2.2	0.03	-2.9	0.14	-2.1
A_55_P2071952	NM_178909	Wdr92	0.06	-1.9	0.00	-2.9	0.00	-2.4

A_30_P01023737			0.18	-1.8	0.00	-2.9	0.00	-2.4
A_51_P338262	NM_011619	Tnnt2	0.28	-2.3	0.04	-2.8	0.07	-2.4
A_55_P2428514	AK131869	Retn	0.50	-1.6	0.00	-2.7	0.02	-2.2
A_55_P1994229	NM_010473	Hrc	0.43	-1.9	0.03	-2.6	0.10	-2.0
A_51_P264495	NM_018870	Pgam2	0.13	-2.4	0.02	-2.5	0.14	-1.8
A_52_P58145	NM_009022	Aldh1a2	0.17	-1.7	0.00	-2.5	0.00	-2.3
A_55_P2042500	NM_145635	BC054059	0.06	-2.0	0.00	-2.4	0.00	-2.2
A_52_P460836	NM_177303	Lrrn4	0.20	-1.7	0.00	-2.4	0.03	-1.7
A_55_P1990032	NM_009141	Cxcl5	0.89	1.2	0.00	-2.4	0.02	-2.1
A_51_P146560	NM_018857	Msln	0.61	-1.4	0.00	-2.3	0.03	-1.8
A_55_P1972034	XM_001476091	Muc16	0.54	-1.5	0.00	-2.3	0.00	-2.2
A_51_P175424	NM_011797	Car14	0.32	-1.4	0.00	-2.2	0.00	-2.7
A_55_P2176963	NM_013559	Hsph1	0.50	-1.4	0.00	-2.2	0.00	-2.7
A_55_P2088720	XM_001477698	Gm3651	0.06	-1.6	0.00	-2.2	0.00	-1.7
A_55_P2003513	NM_013559	Hsph1	0.54	-1.4	0.00	-2.2	0.00	-2.6
A_51_P271984	NM_144936	Tmem45b	0.11	-1.8	0.00	-2.2	0.00	-2.4
A_51_P148612	NM_009944	Cox7a1	0.17	-1.9	0.02	-2.1	0.01	-2.2
A_55_P2159485	XM_001476778	Gm3459	0.75	-1.3	0.01	-2.1	0.21	-1.5
A_55_P2011341	XM_001474162	LOC100045268	0.21	-1.6	0.01	-2.1	0.01	-1.9
A_55_P2011862	NM_008653	Mybpc3	0.35	-1.7	0.02	-2.0	0.02	-2.0
A_51_P255699	NM_010809	Mmp3	0.32	-1.5	0.00	-2.0	0.05	-1.6
A_55_P2087984	NM_001164671	Dnaja1	0.34	-1.4	0.00	-2.0	0.00	-2.3
A_55_P2036240	XM_001478041	Gm3804	0.36	-1.5	0.00	-2.0	0.01	-1.7
A_55_P2090505	XM_001480011	Gm4382	0.20	-1.5	0.00	-2.0	0.00	-1.8
A_51_P495780	NM_020568	Plin4	0.44	-1.5	0.04	-1.9	0.06	-1.7
A_51_P217498	NM_009204	Slc2a4	0.26	-1.7	0.03	-1.9	0.08	-1.7
A_51_P497985	NM_013484	C2	0.74	-1.2	0.02	-1.9	0.08	-1.5
A_55_P2094060	NM_010370	Gzma	0.29	-1.6	0.01	-1.9	0.02	-1.7
A_55_P2169586	NM_026439	Ccdc80	0.35	-1.4	0.01	-1.9	0.04	-1.5
A_51_P492456	NM_008215	Has1	0.35	-1.4	0.00	-1.9	0.01	-1.8
A_52_P281702	NM_010518	Igfbp5	0.32	-1.4	0.00	-1.9	0.01	-1.6
A_55_P1978866	XM_001472829	LOC100039402	0.07	-1.6	0.00	-1.9	0.02	-1.6
A_55_P2135967	XM_979793	Gm7816	0.35	-1.4	0.00	-1.9	0.00	-2.3
A_55_P2048767	NM_146015	Efemp1	0.82	-1.2	0.00	-1.9	0.04	-1.6
A_52_P114889	NM_175309	Upk3b	0.56	-1.3	0.00	-1.9	0.02	-1.7
A_55_P1954092	XM_001473985	Gm2563	0.07	-1.6	0.00	-1.9	0.02	-1.5
A_55_P2029746	XM_001472371	1200016E24Rik	0.15	-1.6	0.00	-1.9	0.05	-1.5
A_55_P2097518	NM_001080943	Zdhhc22	0.14	-1.7	0.02	-1.8	0.00	-2.6
A_55_P1957213	XM_001479389	Gm4148	0.26	-1.5	0.01	-1.8	0.06	-1.5
A_55_P1962918	NM_001033450	Mnda	0.17	-1.4	0.00	-1.8	0.01	-1.5
A_55_P2035320	NM_017373	Nfil3	0.26	-1.3	0.00	-1.8	0.00	-1.9
A_55_P1953377			0.73	-1.2	0.00	-1.8	0.00	-1.8
A_55_P2007496	XM_001472254	Gm2045	0.86	-1.1	0.02	-1.7	0.22	-1.4
A_51_P101985	NM_001166662	Ccdc85a	0.50	-1.4	0.02	-1.7	0.00	-2.0
A_55_P1964348	NM_023608	Gdpd2	1.00	-1.0	0.01	-1.7	0.06	-1.5
A_55_P1954724	NR_002860	A130040M12Rik	0.29	-1.4	0.01	-1.7	0.12	-1.4
A_55_P1974984	XM_001474652	LOC100045638	0.23	-1.5	0.01	-1.7	0.06	-1.5
A_52_P482897	NM_009704	Areg	0.41	-1.4	0.01	-1.7	0.05	-1.5
A_55_P1960148	XM_001472091		0.39	-1.4	0.01	-1.7	0.00	-2.2

A_55_P1960936	XM_001473982	Gm2562	0.30	-1.4	0.01	-1.7	0.14	-1.4
A_52_P676819	NM_007562	Bnc1	0.27	-1.4	0.00	-1.7	0.02	-1.5
A_55_P2173837	NM_001164734	Mpp6	0.32	-1.3	0.00	-1.7	0.01	-1.4
A_52_P16419	NM_010271	Gpd1	0.11	-1.5	0.00	-1.7	0.00	-1.6
A_55_P1973347	NR_002860	A130040M12Rik	0.13	-1.5	0.00	-1.7	0.00	-1.6
A_51_P269203	NM_022017	Trpv4	0.99	-1.0	0.05	-1.6	0.04	-1.6
A_51_P464703	NM_021443	Ccl8	0.57	-1.3	0.05	-1.6	0.03	-1.6
A_51_P407984	NM_030022	Grifin	0.62	1.3	0.04	-1.6	0.84	-1.1
A_55_P2087985			0.77	-1.2	0.04	-1.6	0.00	-1.7
A_55_P1993404			0.62	-1.3	0.04	-1.6	0.00	-1.9
A_55_P2016105	NM_133753	Errfi1	0.09	-1.5	0.02	-1.6	0.00	-1.7
A_55_P2028734	NM_013794	Klra16	0.19	-1.5	0.02	-1.6	0.00	-1.7
A_55_P2057946	NM_010480	Hsp90aa1	0.73	-1.2	0.02	-1.6	0.01	-1.6
A_51_P509679	XM_001474025		0.41	-1.4	0.01	-1.6	0.00	-1.9
A_51_P305843	NM_025844	Chordc1	0.35	-1.3	0.01	-1.6	0.00	-1.8
A_55_P2170349	NM_053152	Klra22	0.26	-1.4	0.00	-1.6	0.01	-1.6
A_55_P2105843	XM_001472740	Gm2371	0.20	-1.5	0.00	-1.6	0.04	-1.5
A_30_P01025818			0.41	-1.3	0.00	-1.6	0.02	-1.4
A_55_P2034655	AK007918		0.05	-1.4	0.00	-1.6	0.01	-1.4
A_52_P514407	NM_013793	Klra15	0.08	-1.4	0.00	-1.6	0.01	-1.5
A_55_P2182716	NM_145635	BC054059	0.26	-1.3	0.00	-1.6	0.01	-1.5
A_52_P250555	NM_019682	Dynll1	0.63	-1.2	0.00	-1.6	0.00	-1.6
A_51_P311038	NM_001024139	Adamts15	0.00	-1.3	0.00	-1.6	0.00	-1.2
A_51_P150710	NM_152839	Igj	0.29	-1.3	0.00	-1.6	0.00	-1.5
A_51_P173678	NM_029415	Slc10a6	0.47	-1.3	0.05	-1.5	0.00	-2.1
A_55_P2009861	XM_001472138	Gm2015	0.35	-1.4	0.04	-1.5	0.14	-1.3
A_52_P537545	NM_021491	Smpd3	0.51	-1.3	0.03	-1.5	0.10	-1.4
A_55_P2165790	NM_178706	Siglech	0.51	-1.3	0.03	-1.5	0.00	-1.7
A_30_P01029006			0.63	-1.2	0.03	-1.5	0.18	-1.3
A_55_P2025820	XM_001480287		0.33	-1.3	0.02	-1.5	0.03	-1.4
A_30_P01020751			0.25	-1.4	0.02	-1.5	0.10	-1.3
A_55_P2214124	BC019425		0.33	-1.3	0.02	-1.5	0.00	-1.6
A_66_P105175	NM_009738	Bche	0.08	-1.4	0.02	-1.5	0.34	-1.2
A_52_P573336	NM_172205	Sbsn	0.52	-1.2	0.02	-1.5	0.11	-1.3
A_55_P2057528	NM_025404	Arl4d	0.13	-1.4	0.01	-1.5	0.00	-1.6
A_55_P2154252	NM_013529	Gfpt2	0.47	-1.3	0.01	-1.5	0.07	-1.4
A_51_P142744	NM_172294	Sulf1	0.32	-1.3	0.01	-1.5	0.00	-1.5
A_55_P2058157	NM_134034	Smek2	0.73	-1.2	0.01	-1.5	0.02	-1.4
A_55_P2044282	NM_001164734	Mpp6	0.61	-1.2	0.01	-1.5	0.18	-1.3
A_55_P2185890	XM_001479650	LOC100048018	0.16	-1.3	0.01	-1.5	0.00	-1.6
A_55_P2048378	NM_001008427	Gm5595	0.06	-1.5	0.01	-1.5	0.03	-1.4
A_55_P2139430	XM_001479756	LOC100048207	0.88	-1.1	0.01	-1.5	0.77	-1.1
A_51_P487175	NM_212441	Acsn3	0.43	-1.3	0.01	-1.5	0.01	-1.5
A_55_P1955587	NM_010477	Hspd1	0.60	-1.2	0.01	-1.5	0.00	-1.7
A_51_P386880	NM_016737	Stip1	0.70	-1.2	0.01	-1.5	0.00	-1.6
A_55_P2004536	NM_010649	Klra4	0.50	-1.3	0.01	-1.5	0.03	-1.4
A_51_P514405	NM_019741	Slc2a5	0.00	-1.4	0.01	-1.5	0.01	-1.4
A_66_P103027	NM_172732	Clec9a	0.00	-1.4	0.00	-1.5	0.00	-1.4
A_66_P103271	NM_001164598	Irf2bp2	0.39	-1.2	0.00	-1.5	0.00	-1.5

A_30_P01032068			0.38	-1.3	0.00	-1.5	0.02	-1.4
A_55_P1983418	NM_007446	Amy1	0.06	-1.5	0.00	-1.5	0.02	-1.4
A_55_P2279140	AK089751	F830014O18Rik	0.51	-1.2	0.00	-1.5	0.01	-1.4
A_52_P624434	NM_175526	Clec1a	0.90	1.1	0.04	1.5	0.22	1.3
A_55_P1955015	NM_178440	Myo1g	0.28	1.4	0.04	1.5	0.04	1.4
A_55_P2032232	NM_011268	Rgs9	0.85	1.1	0.03	1.5	0.01	1.5
A_51_P157042	NM_010217	Ctgf	0.91	1.1	0.03	1.5	0.08	1.3
A_51_P408649	NM_145463	Shisa2	0.82	1.1	0.02	1.5	0.14	1.3
A_51_P181286	NM_001033122	Cd69	0.54	1.2	0.02	1.5	0.00	1.6
A_52_P216613	NM_182806	Gpr18	0.16	1.4	0.01	1.5	0.11	1.3
A_30_P01025417			0.45	1.2	0.00	1.5	0.00	1.5
A_51_P307168	NM_026993	Ddah1	0.92	1.0	0.00	1.5	0.00	1.7
A_55_P1986282	NM_001111099	Cdkn1a	0.57	1.2	0.00	1.5	0.00	1.8
A_51_P134812	NM_026929	Chac1	0.63	1.1	0.00	1.5	0.01	1.3
A_55_P2137406	NM_007527	Bax	0.00	1.3	0.00	1.5	0.00	1.7
A_30_P01027827			0.53	1.2	0.00	1.5	0.00	1.6
A_55_P2027022	NM_007548	Prdm1	0.69	1.1	0.00	1.5	0.01	1.4
A_51_P202623	NM_028832	Mterfd3	0.07	1.3	0.00	1.5	0.00	1.5
A_55_P2026295	NM_153399	Syne1	0.88	1.1	0.00	1.5	0.11	1.2
A_52_P263658	NM_008236	Hes2	0.70	1.1	0.00	1.5	0.04	1.3
A_51_P194498	NM_023395	Wfdc1	0.15	1.4	0.00	1.5	0.01	1.5
A_55_P1969032	NM_011268	Rgs9	0.79	1.1	0.00	1.5	0.02	1.4
A_51_P290576	NM_152804	Plk2	0.06	1.3	0.00	1.5	0.00	1.6
A_55_P2005213	NM_145603	Ces2	0.28	1.2	0.00	1.5	0.00	1.5
A_52_P73620	NM_198028	Serpinb10	0.71	1.2	0.03	1.6	0.01	1.6
A_51_P449325	NM_008206	H2-Oa	0.16	1.5	0.01	1.6	0.00	1.8
A_66_P122158	NR_003518	Pisd-ps3	0.16	1.3	0.00	1.6	0.00	1.6
A_55_P1960735	NM_011819	Gdf15	0.42	1.2	0.00	1.6	0.00	1.8
A_30_P01023499			0.42	1.2	0.00	1.6	0.00	1.5
A_51_P110471	NM_026993	Ddah1	0.57	1.2	0.00	1.6	0.00	1.6
A_51_P247184	NM_008728	Npr3	0.28	1.6	0.05	1.7	0.03	1.7
A_30_P01032234			0.68	1.3	0.02	1.7	0.01	1.7
A_52_P70796	NM_007551	Cxcr5	0.42	1.4	0.02	1.7	0.01	1.8
A_55_P2117345	NM_013517	Fcer2a	0.41	1.4	0.02	1.7	0.00	1.9
A_52_P390944	NM_016803	Chst3	0.52	1.2	0.00	1.7	0.00	1.6
A_55_P1959500	NM_172759	Ces5	0.81	1.1	0.00	1.7	0.00	1.8
A_52_P627269	NM_198171	BC015286	0.14	1.3	0.00	1.7	0.00	1.6
A_66_P135391	NM_008342	Igfbp2	0.57	1.3	0.01	1.8	0.05	1.5
A_51_P444137	NM_001143765	Syce1	0.38	1.5	0.01	1.8	0.30	1.3
A_51_P154485	NM_145141	Fcrla	0.51	1.4	0.01	1.8	0.00	1.9
A_52_P257625	NM_023612	Esm1	0.47	1.2	0.00	1.8	0.00	1.5
A_52_P303891	NM_011584	Nr1d2	0.47	1.4	0.01	1.9	0.00	2.1
A_55_P2056729	NM_008342	Igfbp2	0.52	1.3	0.00	1.9	0.02	1.6
A_55_P2019577	NR_027818	1500011B03Rik	0.92	1.1	0.00	2.0	0.01	1.7
A_66_P118600	NM_008480	Lama1	0.14	1.9	0.01	2.2	0.00	3.4
A_51_P254425	NM_009644	Ahrr	0.14	1.7	0.00	2.5	0.00	5.3
A_51_P223776	NM_145434	Nr1d1	0.37	1.6	0.00	2.6	0.00	2.7
A_51_P255456	NM_009994	Cyp1b1	0.15	2.1	0.00	2.8	0.00	12.5
A_55_P2032081	NM_016974	Dbp	0.61	1.6	0.00	3.5	0.00	4.5

A_55_P2032079	NM_016974	Dbp	0.45	1.7	0.00	3.8	0.00	5.2
A_51_P279693	NM_009992	Cyp1a1	0.91	1.2	0.00	5.5	0.00	17.8
A_55_P1995698	NM_145585	Thumpd1	0.87	1.3	0.00	6.2	0.00	4.3
A_55_P2165414	NM_009243	Serpina1a	0.10	2.3	0.99	-1.0	0.00	2.6
A_55_P2148534	BC096461	Nr1d2	0.56	1.4	0.06	1.8	0.00	2.4
A_55_P2104975	NM_001168294	Serpina3f	0.50	1.5	0.12	1.7	0.00	2.2
A_55_P1965154	NM_025565	Spc25	0.95	1.0	0.42	1.2	0.00	2.2
A_55_P2010301	NM_009245	Serpina1c	0.27	1.8	0.98	-1.0	0.02	2.1
A_55_P2205650	AK162965	2610507I01Rik	0.86	1.2	0.24	1.7	0.04	2.0
A_55_P2046709			0.34	1.7	0.90	-1.1	0.02	2.0
A_55_P2113857	NM_009247	Serpina1e	0.30	1.7	0.86	-1.1	0.02	2.0
A_52_P483336	NM_007641	Ms4a1	0.41	1.6	0.08	1.8	0.01	2.0
A_51_P455897	NM_144526	Fam64a	0.76	1.1	0.31	1.2	0.00	2.0
A_55_P1983773	NM_001012273	Birc5	0.96	1.0	0.41	1.2	0.00	2.0
A_51_P481920	NM_009828	Ccna2	0.95	1.0	0.37	1.2	0.00	2.0
A_51_P231320	NM_008611	Mmp8	0.34	1.3	0.04	1.4	0.00	2.0
A_55_P2082929	NM_010389	H2-Ob	0.54	1.4	0.08	1.6	0.00	2.0
A_51_P483576	AF138742		0.65	1.4	0.16	1.6	0.03	1.9
A_51_P342652	NM_008339	Cd79b	0.49	1.5	0.10	1.7	0.02	1.9
A_55_P2145224	AF290571		0.60	1.4	0.16	1.6	0.01	1.9
A_55_P2057283	AY170502		0.61	1.4	0.19	1.6	0.01	1.9
A_55_P2089233	NM_011136	Pou2af1	0.38	1.5	0.10	1.6	0.00	1.9
A_51_P253803	NM_001081117	Mki67	0.98	-1.0	0.73	1.1	0.00	1.9
A_55_P1988202	NM_001045481	Ifi203	0.53	1.3	0.06	1.4	0.00	1.9
A_55_P2010298	NM_009246	Serpina1d	0.40	1.5	0.93	-1.1	0.04	1.8
A_51_P485421	AK088666		0.35	1.5	0.10	1.6	0.02	1.8
A_55_P2142430	NM_001033350	Bank1	0.20	1.5	0.11	1.5	0.01	1.8
A_55_P2073377	NM_001081117	Mki67	0.96	1.0	0.88	1.0	0.00	1.8
A_51_P187750	NM_153408	Neurl3	0.88	1.1	0.11	1.3	0.00	1.8
A_51_P133137	NM_009004	Kif20a	0.61	1.2	0.22	1.2	0.00	1.8
A_55_P2117614	NM_028075	Tnfrsf13c	0.49	1.3	0.14	1.4	0.00	1.8
A_51_P378298	NM_026976	Faim3	0.82	1.2	0.07	1.6	0.04	1.7
A_55_P1964648	NM_001037719	Btla	0.77	1.2	0.11	1.6	0.03	1.7
A_55_P1974080	NM_001135127	LOC100189605	0.98	-1.0	0.94	1.0	0.03	1.7
A_55_P1970090	NM_010350	Grin2c	0.26	1.6	0.07	1.6	0.03	1.7
A_55_P2066230	NM_010407	Hck	0.41	1.4	0.22	1.4	0.02	1.7
A_66_P130916	NM_010389	H2-Ob	0.48	1.4	0.09	1.5	0.01	1.7
A_52_P675395	NM_007722	Cxcr7	0.60	1.3	0.43	1.2	0.01	1.7
A_51_P164014	NM_173762	Cenpe	0.97	-1.0	0.92	1.0	0.00	1.7
A_55_P2103706	XM_485921	Gm5593	0.80	1.1	0.35	1.2	0.00	1.7
A_55_P2025675	NM_013811	Dnahc8	0.34	1.3	0.06	1.4	0.00	1.7
A_55_P1996946	NM_023223	Cdc20	0.83	1.1	0.62	1.1	0.00	1.7
A_55_P1961270	NM_001110320	Cd72	0.13	1.5	0.10	1.4	0.00	1.7
A_55_P2173982	NM_009104	Rrm2	0.86	-1.1	0.89	1.0	0.00	1.7
A_52_P162099	NM_001004140	Ckap2	0.97	1.0	0.92	1.0	0.00	1.7
A_51_P212782	NM_008361	Il1b	0.28	1.4	0.47	1.2	0.00	1.7
A_55_P2040485	XM_889011	Ms4a4a	0.51	1.2	0.15	1.3	0.00	1.7
A_55_P2030938	NM_025863	Trim59	0.49	1.3	0.48	1.2	0.00	1.7
A_51_P302358	NM_008518	Ltb	0.49	1.4	0.26	1.4	0.04	1.6

A_55_P2079079	NM_009844	Cd19	0.29	1.5	0.06	1.6	0.04	1.6
A_51_P256827	NM_013650	S100a8	0.33	1.5	0.99	-1.0	0.04	1.6
A_51_P170959	AK005011	Proz	0.61	1.3	0.14	1.5	0.04	1.6
A_66_P106388	NM_029499	Ms4a4c	0.65	1.3	0.30	1.4	0.02	1.6
A_51_P279437	NM_029662	Mfsd2a	0.84	-1.1	0.87	-1.1	0.02	1.6
A_55_P2090025	NM_008590	Mest	0.80	1.2	0.09	1.5	0.02	1.6
A_55_P2002757	NM_008528	Blnk	0.33	1.4	0.19	1.4	0.02	1.6
A_51_P509263	NM_010455	Hoxa7	0.43	1.4	0.15	1.4	0.01	1.6
A_51_P305052	NM_172900	Siglecg	0.29	1.4	0.07	1.4	0.01	1.6
A_55_P2052062	NM_010818	Cd200	0.98	1.0	0.71	1.1	0.01	1.6
A_55_P1958275	NM_016707	Bcl11a	0.34	1.4	0.07	1.5	0.01	1.6
A_52_P588881	NM_001033484	Iqgap3	0.82	-1.1	0.79	1.1	0.00	1.6
A_51_P405397	NM_007899	Ecm1	0.78	1.1	0.00	1.4	0.00	1.6
A_55_P2470474	AK087205	9530082P21Rik	0.29	1.2	0.00	1.4	0.00	1.6
A_51_P464918	NM_019453	Mefv	0.28	1.3	0.21	1.2	0.00	1.6
A_51_P130079	NM_008511	Lrmp	0.25	1.4	0.09	1.4	0.00	1.6
A_30_P01027010			0.35	1.2	0.00	1.4	0.00	1.6
A_52_P625277	NM_183220	Accs	0.32	1.2	0.03	1.3	0.00	1.6
A_51_P498631	NM_018769	Dfna5	0.22	1.3	0.17	1.3	0.00	1.6
A_51_P336721	NM_025372	Tipin	0.42	1.2	0.13	1.2	0.00	1.6
A_55_P1988228	NM_009791	Aspm	0.95	1.0	0.64	1.1	0.00	1.6
A_55_P2169227	NM_177716	Al836003	0.63	1.2	0.06	1.4	0.00	1.6
A_55_P2157872	NM_001079695	Sfrs5	0.76	1.1	0.25	1.3	0.00	1.6
A_55_P2095271	NM_153805	Pkn3	0.29	1.2	0.06	1.3	0.00	1.6
A_55_P2010152	NM_001164059	Sell	0.71	1.2	0.62	1.2	0.04	1.5
A_55_P2035286	NM_010931	Uhrf1	0.74	-1.2	0.82	-1.1	0.04	1.5
A_55_P1976278	NM_008855	Prkcb	0.47	1.4	0.40	1.3	0.04	1.5
A_51_P247359	NM_016933	Ptpcrap	0.43	1.3	0.19	1.4	0.04	1.5
A_55_P2088145			0.50	1.3	0.31	1.3	0.04	1.5
A_55_P2033600	NM_019992	Stap1	0.57	1.3	0.48	1.2	0.03	1.5
A_51_P272106	NM_007705	Cirbp	0.67	1.2	0.15	1.4	0.03	1.5
A_55_P1964664	NM_139149	Fus	0.68	1.2	0.45	1.2	0.02	1.5
A_55_P1958887	NM_001025384	DXBay18	0.70	1.2	0.27	1.3	0.02	1.5
A_66_P119034	NM_013737	Pla2g7	0.43	1.3	0.60	1.2	0.02	1.5
A_51_P230098	NM_023209	Pbk	0.85	-1.1	0.92	1.0	0.01	1.5
A_51_P149714	NM_026835	Ms4a6d	0.44	1.2	0.29	1.2	0.01	1.5
A_55_P1973770	NM_029770	Unc5b	0.91	1.1	0.10	1.3	0.01	1.5
A_55_P1960238	NM_172659	Slc2a6	0.58	1.2	0.51	1.2	0.01	1.5
A_51_P246677	NM_020002	Rec8	0.96	1.0	0.45	1.2	0.01	1.5
A_51_P267314	NM_178650	Tbc1d10c	0.29	1.4	0.14	1.4	0.01	1.5
A_51_P472217	NM_001081085	2010317E24Rik	0.82	1.1	0.90	-1.1	0.01	1.5
A_55_P2180415	NM_001110320	Cd72	0.26	1.4	0.27	1.3	0.01	1.5
A_66_P120987	NM_007655	Cd79a	0.33	1.3	0.34	1.2	0.01	1.5
A_55_P2062543	NM_053173	Kifc1	0.90	1.1	0.76	1.1	0.00	1.5
A_51_P249313	NM_028705	Herc3	0.57	1.2	0.23	1.2	0.00	1.5
A_55_P2004801	NM_001040435	Tacc3	0.98	1.0	0.65	1.1	0.00	1.5
A_55_P1973560			0.92	1.0	0.63	1.1	0.00	1.5
A_55_P1988048	NM_001163522	Emcn	0.61	1.2	0.02	1.4	0.00	1.5
A_55_P2037454	NM_023794	Etv5	0.26	1.2	0.01	1.4	0.00	1.5

A_55_P2040805	NM_130903	Cd209c	0.00	1.4	0.02	1.3	0.00	1.5
A_51_P240453	NM_133851	Nusap1	0.91	1.1	0.71	1.1	0.00	1.5
A_52_P325527	NM_010103	Edil3	0.98	-1.0	0.04	1.4	0.00	1.5
A_51_P209327	NM_013912	Apln	0.99	1.0	0.09	1.3	0.00	1.5
A_30_P01023554			0.74	1.1	0.37	1.2	0.00	1.5
A_51_P204402	NM_011369	Shcbp1	0.94	-1.0	0.79	1.1	0.00	1.5
A_51_P487999	NM_028232	Sgol1	0.96	1.0	0.84	1.1	0.00	1.5
A_55_P1955998	NM_001004142	Nlrp1a	0.13	1.4	0.05	1.4	0.00	1.5
A_52_P51429	NM_153551	Dennd1c	0.36	1.3	0.13	1.3	0.00	1.5
A_55_P2304507	NM_172204	Noxa1	0.31	1.3	0.81	1.1	0.00	1.5
A_51_P449824	XM_001471750	Exoc3l2	0.84	1.1	0.35	1.2	0.00	1.5
A_51_P329928	NM_013750	Phlda3	0.77	1.1	0.00	1.4	0.00	1.5
A_55_P2018847	NM_001164735	Crlf2	0.00	1.3	0.00	1.4	0.00	1.5
A_55_P2017759	NM_001033711	Evi2a	0.41	1.3	0.37	1.2	0.00	1.5
A_55_P2127702	NM_012025	Racgap1	1.00	1.0	0.49	1.1	0.00	1.5
A_52_P527800	NM_145158	Emilin2	0.19	1.3	0.29	1.2	0.00	1.5
A_51_P488554	NM_026543	3010026O09Rik	0.22	1.2	0.00	1.4	0.00	1.5
A_30_P01023785			0.57	1.2	0.00	1.4	0.00	1.5
A_55_P2087528	NM_172681	D930015E06Rik	0.00	1.4	0.03	1.3	0.00	1.5
A_55_P1967978	NM_001136073	Nfatc2	0.25	1.3	0.48	1.2	0.00	1.5
A_52_P469789	NM_007588	Calcr	0.90	1.1	0.44	1.2	0.00	1.5
A_51_P451151	NM_026785	Ube2c	0.84	1.1	0.32	1.2	0.00	1.5
A_51_P455807	NM_133838	Ehd4	0.66	1.2	0.04	1.4	0.00	1.5
A_55_P1985850	NM_001044384	Timp1	0.32	-1.4	0.06	-1.5	0.04	-1.5
A_55_P2062070	NM_001081064	Pdzd2	0.61	-1.2	0.77	-1.1	0.03	-1.5
A_51_P321341	NM_133670	Sult1a1	0.53	-1.3	0.19	-1.3	0.03	-1.5
A_51_P284823	NM_009086	Polr1b	0.86	-1.1	0.34	-1.3	0.03	-1.5
A_51_P245414	NM_010639	Klk1	0.82	-1.1	0.54	-1.2	0.02	-1.5
A_51_P234253	NM_145535	Sdcbp2	0.69	-1.2	0.37	-1.2	0.02	-1.5
A_52_P444946	NM_001033212	Rprml	0.97	-1.0	0.96	1.0	0.02	-1.5
A_51_P158678	NM_021427	Fam181b	0.43	-1.3	0.17	-1.3	0.01	-1.5
A_55_P2157023	NM_011441	Sox17	0.79	-1.1	0.49	-1.2	0.01	-1.5
A_30_P01032480			0.79	-1.1	1.00	-1.0	0.01	-1.5
A_51_P484842	NM_007493	Asgr2	0.83	-1.1	0.30	-1.2	0.01	-1.5
A_30_P01027526			0.67	-1.1	0.14	-1.2	0.00	-1.5
A_51_P112762	NM_017391	Slc5a3	0.65	-1.1	0.01	-1.3	0.00	-1.5
A_55_P2072453	NM_001081361	Mosc1	0.00	-1.4	0.01	-1.4	0.00	-1.5
A_55_P2334484	BE650233	D9Ertd115e	0.88	-1.1	0.11	-1.3	0.00	-1.5
A_66_P105422	NM_028894	Lonrf3	0.65	-1.2	0.12	-1.3	0.00	-1.5
A_55_P2181597	NM_008546	Mfap2	0.68	-1.1	0.10	-1.2	0.00	-1.5
A_51_P224311	NM_022318	Popdc2	0.63	-1.2	0.63	-1.1	0.00	-1.5
A_51_P208931	NM_145974	C330016O10Rik	0.52	-1.2	0.17	-1.2	0.00	-1.5
A_52_P161495	NM_009744	Bcl6	0.61	-1.2	0.19	-1.2	0.00	-1.5
A_55_P2126557	XM_619973	Gm5858	0.95	-1.0	0.78	-1.1	0.00	-1.5
A_55_P2045055	NM_010796	Clec10a	0.61	-1.2	0.02	-1.4	0.00	-1.5
A_55_P2052623	NM_145583	Pgap2	0.57	-1.2	0.22	-1.3	0.00	-1.5
A_52_P33382	XM_356935	Gm5226	0.56	-1.3	0.34	-1.3	0.04	-1.6
A_52_P566681	NM_153581	Gpm6a	0.58	-1.3	0.30	-1.3	0.03	-1.6
A_55_P2161410	NM_009253	Serpina3m	0.89	1.1	0.19	-1.4	0.02	-1.6

A_55_P2035946	NM_001002927	Penk	0.15	-1.6	0.06	-1.5	0.02	-1.6
A_55_P2058201	NM_001009952	Abpd	0.40	-1.4	0.16	-1.4	0.01	-1.6
A_51_P129803	NM_009786	Cacybp	0.65	-1.2	0.06	-1.4	0.01	-1.6
A_52_P650387	NM_001045530	Ccnjl	0.33	-1.3	0.10	-1.4	0.01	-1.6
A_55_P2080603	NM_031165	Hspa8	0.74	-1.2	0.13	-1.4	0.01	-1.6
A_55_P2069721	NM_031165	Hspa8	0.78	-1.2	0.19	-1.4	0.01	-1.6
A_55_P1985764	XM_001479044	LOC100047875	0.74	-1.2	0.05	-1.4	0.01	-1.6
A_55_P2078138	NM_172709	Otop1	0.50	-1.3	0.34	-1.3	0.01	-1.6
A_30_P01018165			0.14	-1.3	0.00	-1.4	0.00	-1.6
A_55_P2062793	NM_008546	Mfap2	0.30	-1.2	0.00	-1.4	0.00	-1.6
A_30_P01026318			0.91	-1.1	0.53	-1.2	0.00	-1.6
A_51_P116651	NM_019759	Dpt	0.69	-1.3	0.44	-1.3	0.04	-1.7
A_30_P01029503			0.20	-1.7	0.39	-1.4	0.03	-1.7
A_51_P444447	NM_007679	Cebpd	0.36	-1.5	0.10	-1.5	0.02	-1.7
A_55_P2408588	NM_007489	Arntl	0.88	-1.1	0.17	-1.4	0.01	-1.7
A_52_P671812	XM_918536	LOC641192	0.58	-1.2	0.12	-1.4	0.00	-1.7
A_30_P01023143			0.24	-1.3	0.05	-1.3	0.00	-1.7
A_55_P1974522	NM_175688	A530099J19Rik	0.12	-1.3	0.01	-1.4	0.00	-1.7
A_55_P1968304			0.59	-1.2	0.06	-1.4	0.00	-1.7
A_55_P1980883	NM_001146351	Ephb6	0.20	-1.3	0.01	-1.4	0.00	-1.7
A_55_P2444965	NM_175518	D730040F13Rik	0.75	-1.2	0.70	-1.1	0.00	-1.7
A_52_P12877	NM_031165	Hspa8	0.77	-1.2	0.27	-1.4	0.00	-1.8
A_55_P2292046	AK084291	D230018H15Rik	0.61	-1.2	0.06	-1.4	0.00	-1.8
A_55_P1989061	NM_001077364	Tsc22d3	0.33	-1.6	0.07	-1.7	0.01	-1.9
A_51_P127681	NM_013885	Clic4	0.97	-1.1	0.19	-1.7	0.03	-2.0
A_55_P2131766	NM_023665	D4Wsu53e	0.85	-1.2	0.12	-1.8	0.02	-2.0
A_51_P356055	NM_175012	Grp	0.80	-1.2	0.20	-1.4	0.00	-2.1
A_51_P195374	NM_025833	Baiap2l1	0.95	-1.1	0.97	-1.0	0.02	-2.2
A_51_P338443	NM_020581	Angptl4	0.41	-1.7	0.65	-1.3	0.01	-2.2