

### **Supplementary Table 1 Legend:**

All differentially expressed genes are sorted by fold change. Also shown is the gene symbol for each gene. More information about each gene, including common names, can be obtained by entering the gene symbol in the Mouse Genome Informatics (MGI 3.54) web site. The NCBI Reference Sequence ID, or Accession number for each gene is shown. All genes were sorted into Gene Ontology Biological Process categories. Several of the categories were found to be of interest and the numbers in the Notes column refer to genes assigned to the following groupings of Gene Ontology Biological Process categories:

- 1 = regulation of transcription, DNA-dependent (GO ID 0006355)
- 2 = protein folding, response to unfolded protein, ER overload response (GO IDs 0006457, 0006986, 0006983)
- 3 = small GTPase mediated signal transduction (GO ID 0007264)
- 4 = negative regulation of apoptosis (GO ID 0043066)
- 5 = cell death (GO IDs 0012501, 0008219)
- 6 = negative regulators of cell growth (GO IDs 0030308, 0008285, 0001558)
- 7 = fatty acid and glucose metabolism (GO IDs 0008152, 0015758, 0006094, 0006631)

Known and putative ERSR genes are designated by \* and #, respectively.

**Supplemental Table 1: Complete List of Genes Induced by ATF6**

Number	Gene Symbol	RefSeq Transcript ID	Fold Change	Notes
1	Mlstcd2	NM_026143	120.90	
2	Spp1	NM_009263	91.47	4
3	Polr3k	NM_025901	69.92	1
4	Alkbh2	NM_175016	47.45	
5	Ptx3	NM_008987	46.31	#
6	Smad3	NM_011418	44.98	1, 6
7	Psat1	NM_177420	40.77	7
8	Il6	NM_031168	38.45	4, #
9	Myc	NM_010849	35.36	1
10	Slc15a3	NM_023044	30.96	
11	Cxcl1	NM_008176	25.21	
12	Mthfd2	NM_008638	22.45	
13	Clec4e	NM_019948	22.34	
14	Ccl2	NM_011333	21.74	4
15	Cxcl5	NM_009141	21.56	
16	Vcan	NM_001081249	21.45	
17	Sycp2	NM_177191	21.11	
18	Tk1	NM_009387	20.57	
19	Cdkn1a	NM_007669	20.43	4, 6
20	Derl3	NM_024440	18.50	*
21	Sdf2l1	NM_022324	17.41	#
22	Pdia4	NM_009787	16.37	*
23	Ccl12	NM_011331	14.03	
24	Dnajc3a	NM_008929	12.75	2, *
25	Dnajb11	NM_026400	12.39	2, *
26	Ccl7	NM_013654	12.03	
27	EG574437	NM_001081643	11.90	
28	Rcc2	NM_173867	11.71	
29	Pscdbp	NM_139200	11.54	
30	Chi3l3	NM_009892	11.44	
31	Evi2b	NM_001077496	11.40	
32	Pycr1	NM_144795	10.82	
33	AW011738	XM_001001227	10.56	
34	Plcx2	XM_001000738	10.55	
35	Gadd45g	NM_011817	10.52	#
36	EG668771	NM_016966	10.30	7
37	Nr4a3	NM_015743	10.23	1
38	2700038G22Rik	XM_899866	10.11	
39	1700012G19Rik	NM_025954	10.09	7
40	Arid4a	NM_001081195	10.08	
41	LOC669660	XM_976375	9.86	
42	Socs3	NM_007707	9.68	*
43	Eif1a	NM_010120	9.66	
44	Pthr1	NM_178595	9.63	
45	Slc7a5	NM_011404	9.57	
46	Appl1	NM_145221	9.31	
47	Tspyl2	NM_029836	9.29	1

48	Rtn4	NM_024226	9.28	#
49	Asns	NM_012055	9.26	7, *
50	P4hb	NM_011032	9.17	2, *
51	BB414484	---	8.92	
52	Cd44	NM_001039150	8.86	
53	Mlit3	NM_027326	8.67	1
54	Arf2	NM_007477	8.52	3
55	2610207I05Rik	NM_001031814	8.45	
56	Cks1b	NM_016904	8.28	
57	A1848100	XM_917085	8.23	
58	ARMET	NM_029103	8.21	*
59	Chac1	NM_026929	8.07	
60	Lrrc49	NM_145616	7.88	
61	Ears2	NM_026140	7.84	
62	Timp1	NM_001044384	7.78	
63	D5Ert593e	NM_175096	7.56	
64	I11rn	NM_001039701	7.53	
65	Eda2r	NM_175540	7.46	5
66	Thbs1	NM_011580	7.23	
67	Hspa14	NM_001037542	7.16	
68	Hsp90b1	NM_011631	7.07	2, *
69	Ccr2	NM_009915	6.93	
70	Ilgam	NM_001082960	6.88	
71	Tnfrsf12a	NM_013749	6.78	5
72	Hn1l	NM_198937	6.77	
73	Phgdh	NM_016966	6.73	
74	Trib3	NM_144554	6.64	1, *
75	Mxd1	NM_010751	6.47	1
76	Dbf4	NM_013726	6.44	
77	Kpnb1	NM_008379	6.42	
78	Hmox1	NM_010442	6.40	
79	Sptlc2	NM_011479	6.31	
80	Sel1l	NM_001039089	6.30	
81	Zwint	NM_025635	6.28	
82	D16Ert472e	NM_025967	6.26	
83	Cdk2ap2	NM_026373	6.16	
84	2810474O19Rik	NM_026054	6.05	
85	S100a4	NM_011311	5.99	
86	Azin1	NM_018745	5.96	#
87	Gas5	NR_002840	5.90	#
88	Saa3	NM_011315	5.82	
89	Tubb3	NM_023279	5.80	
90	Zmynd19	NM_026021	5.76	
91	Tubb2b	NM_009450	5.58	
92	Chka	NM_001025566	5.46	
93	Edem1	NM_138677	5.36	2, *
94	Relb	NM_009046	5.35	1, 4
95	Fem1b	NM_010193	5.33	1
96	LOC433261	NM_019768	5.32	1
97	Aldh1a2	NM_009022	5.31	7

98	Ebp	NM_007898	5.29	
99	Calr	NM_007591	5.29	2, *
100	G530011O06Rik	NM_001039559	5.22	
101	Trim37	NM_197987	5.21	
102	Kcnq1	NM_008434	5.14	
103	Morf4l2	NM_019768	5.10	1
104	Ints3	NM_145540	5.09	
105	BC013529	NM_145418	5.08	
106	Xpo1	NM_001035226	5.07	
107	Ubfd1	NM_138589	5.05	
108	Uck2	NM_030724	5.03	
109	Cd52	NM_013706	5.02	
110	Rbm15b	NM_175402	4.99	
111	Cxcr6	NM_030712	4.95	
112	Rras2	NM_025846	4.95	3
113	Cxcl2	NM_009140	4.94	
114	Atf4	NM_009716	4.93	1, 7, *
115	Strbp	NM_009261	4.90	
116	Dph5	NM_027193	4.85	7
117	Ncam1	NM_001081445	4.81	
118	Aldh18a1	NM_019698	4.80	
119	Ckap4	NM_175451	4.80	
120	Gm879	NM_001034874	4.80	
121	EG627828	NM_146130	4.78	
122	Tmem158	NM_001002267	4.78	
123	Ms4a6d	NM_022431	4.76	
124	Tgfb1	NM_009369	4.76	
125	Idi1	NM_145360	4.75	
126	Pdia3	NM_007952	4.72	*
127	Hspa5	NM_022310	4.71	2, 4, *
128	Gdf15	NM_011819	4.65	
129	Col3a1	NM_009930	4.64	
130	Zfp697	NM_172863	4.64	
131	Syvn1	NM_028769	4.60	2, 4, *
132	Elk1	NM_007922	4.57	1
133	Ms4a4c	NM_029499	4.57	
134	Plac8	NM_139198	4.56	
135	Kif5b	NM_008448	4.55	
136	Nans	NM_053179	4.53	7
137	Actr3	NM_023735	4.51	
138	Tnrc15	NM_146112	4.49	
139	Snord22	NR_002896	4.48	#
140	Nola2	NM_026631	4.44	
141	Gas2l3	NM_001033331	4.35	
142	Ppp1r3d	NM_001085501	4.33	
143	Fhl1	NM_001077361	4.33	
144	Bex1	NM_009052	4.33	
145	Txnrd1	NM_001042513	4.32	#
146	Usp1	NM_146144	4.31	
147	Map3k3	NM_011947	4.29	

148	RCAN1	NM_001081549	4.29	#
149	Arntl	NM_007489	4.27	1
150	Snap23	NM_009222	4.23	
151	2810026P18Rik	XM_925560	4.22	
152	Senp2	NM_029457	4.19	1
153	Tbcb	NM_025548	4.19	2
154	Eif2ak3	NM_010121	4.18	2, *
155	Tes	NM_011570	4.14	
156	Nde1	NM_023317	4.12	
157	Pin1	NM_023371	4.12	2, *
158	2610036L11Rik	XM_488549	4.11	
159	4932431P20Rik	NM_001033230	4.08	1
160	BC049807	NM_001002008	4.08	1
161	Fem1c	NM_173423	4.07	1
162	Tubb2c	NM_146116	4.07	
163	Pgk1	NM_008828	4.04	
164	Itgb1bp3	NM_027120	4.03	
165	Cd53	NM_007651	4.03	
166	Smc2	NM_008017	4.02	
167	D14Wsu89e	NM_001081039	4.01	
168	Slc16a6	NM_001029842	3.98	
169	Hyou1	NM_021395	3.86	2, *
170	Rnd1	NM_172612	3.84	3
171	Ugcgl1	NM_198899	3.70	*
172	Egr1	NM_007913	3.67	1
173	Ikbkg	NM_010547	3.57	1
174	Pcdh7	NM_018764	3.55	
175	Hn1	NM_008258	3.53	
176	Prkg1	NM_001013833	3.51	
177	Rrp12	NM_199447	3.45	
178	Uchl1	NM_011670	3.40	
179	Wfs1	NM_011716	3.38	
180	Wdr68	NM_027946	3.34	
181	Coro1a	NM_009898	3.29	
182	Vcp	NM_009503	3.29	
183	Rhpn2	NM_027897	3.26	
184	Ppp1r14b	NM_008889	3.25	
185	Tuba1c	NM_009448	3.24	
186	Rala	NM_019491	3.18	3
187	Hagh	NM_024284	3.14	
188	Mesdc2	NM_023403	3.14	
189	Pnpo	NM_134021	3.10	
190	Serpinh1	NM_009825	3.10	2, #
191	Cotl1	NM_028071	3.08	
192	Frzb	NM_011356	3.07	
193	Rabepk	NM_145522	3.07	
194	Ptpn14	NM_001033287	3.05	
195	Cyb5r3	NM_029787	3.02	
196	Eif2s2	NM_026030	3.02	
197	Gsk3b	NM_019827	3.00	2, 4, #

198	Arid5b	NM_023598	3.00	1
199	1700040I03Rik	NM_028505	2.99	
200	2700049P18Rik	NM_175382	2.98	
201	Prmt2	NM_001077638	2.98	
202	1110014K08Rik	NM_176902	2.98	
203	Bola2	NM_175103	2.96	
204	Efnb2	NM_010111	2.96	
205	Mcm5	NM_008566	2.95	1
206	Xbp1	NM_013842	2.95	1, *
207	Prpf40a	NM_018785	2.94	
208	Finc	NM_001081185	2.91	
209	Dlgap4	NM_001042487	2.91	
210	Sfpq	NM_023603	2.91	1
211	Nol12	NM_133800	2.89	
212	Dpy19l1	NM_172920	2.89	
213	Mettl1	NM_010792	2.87	
214	Stox2	NM_175162	2.85	
215	Klf6	NM_011803	2.85	1
216	Rhoc	NM_007484	2.84	3
217	2500002L14Rik	NM_025607	2.84	
218	Rfxdc2	NM_001033536	2.83	1
219	Nmt1	NM_008707	2.83	
220	Fkbp11	NM_024169	2.81	2
221	Klhl28	NM_025707	2.81	
222	Srm	NM_009272	2.81	
223	Grn	NM_008175	2.81	
224	Erdr1	NM_133362	2.80	
225	Ormdl2	NM_024180	2.79	
226	Stat3	NM_011486	2.78	1, 7
227	Ctnn	NM_007803	2.76	
228	Tmem45a	NM_019631	2.76	
229	Copz1	NM_019817	2.75	
230	Man1a	NM_008548	2.74	7
231	H2-Ke6	NM_013543	2.72	7
232	Enah	NM_001083120	2.68	
233	Fn1	NM_010233	2.68	7
234	Os9	NM_177614	2.67	
235	Acot9	NM_019736	2.67	
236	Gclc	NM_010295	2.66	4
237	Med19	NM_025885	2.66	
238	Ptpre	NM_011212	2.64	
239	Itga7	NM_008398	2.64	
240	Junb	NM_008416	2.64	1
241	Nfil3	NM_017373	2.64	1
242	Apex1	NM_009687	2.63	
243	Slc35b4	NM_021435	2.63	
244	Cyb5r1	NM_028057	2.60	
245	Nme6	NM_018757	2.59	
246	1200002N14Rik	NM_027878	2.57	
247	Bmpr2	NM_007561	2.57	

248	Odc1	NM_013614	2.57	
249	Pja2	NM_001025309	2.57	
250	Cdr2	NM_007672	2.56	
251	Ras11b	NM_026878	2.54	3
252	Sec11a	NM_019951	2.53	#
253	H47	NM_024439	2.52	#
254	Rbm25	NM_025930	2.52	
255	Wdr23	NM_133734	2.52	
256	Trove2	NM_013835	2.51	
257	Nip7	NM_025391	2.51	
258	Heatr5a	NM_177171	2.51	
259	Ppox	NM_008911	2.51	
260	Smurf2	NM_025481	2.51	
261	Slc39a14	NM_144808	2.50	
262	Rap2a	NM_029519	2.49	3
263	Fosl2	NM_008037	2.48	1
264	2010111I01Rik	NM_028079	2.48	
265	Atp2b1	NM_026482	2.48	7
266	Rap2b	NM_028712	2.45	3
267	Ywhaz	NM_011740	2.45	
268	Gmppb	NM_177910	2.44	
269	Rhoa	NM_016802	2.44	3
270	Herpud1	NM_022331	2.43	2, *
271	Incenp	NM_016692	2.41	
272	Ehd4	NM_133838	2.40	
273	3110082I17Rik	NM_028469	2.40	
274	3110050N22Rik	NM_173181	2.40	
275	Slc2a1	NM_011400	2.39	
276	Klh2	NM_178633	2.39	
277	Ngdn	NM_026890	2.38	
278	Nol10	NM_001008421	2.37	
279	Ing1	NM_011919	2.37	1
280	Mafk	NM_010757	2.37	1
281	Mvp	NM_080638	2.36	
282	Tbccd1	NM_001081368	2.36	
283	Rhobtb3	NM_028493	2.36	
284	LOC433749	XM_485435	2.36	3
285	Cldnd1	NM_171826	2.34	
286	Centg2	NM_001037136	2.34	3
287	Pdap1	NM_001033313	2.34	
288	Pdc6ip	NM_011052	2.33	
289	Pacsin3	NM_028733	2.33	
290	2310061F22Rik	NM_153775	2.33	
291	Klf7	NM_033563	2.33	1
292	Nucks1	NM_175294	2.33	
293	Gcs1	NM_020619	2.32	7
294	Lrrc3b	NM_146052	2.32	
295	St6galnac4	NM_011373	2.32	
296	Dysf	NM_001077694	2.32	
297	Fkbp2	NM_008020	2.32	2

298	2310076L09Rik	NM_025874	2.30	
299	Snurf	NM_033174	2.30	
300	Gprk5	NM_018869	2.28	
301	Sec22b	NM_011342	2.27	
302	1700025G04Rik	NM_197990	2.26	
303	Arl4c	NM_177305	2.26	3
304	Dynll1	NM_019682	2.26	
305	Gars	NM_180678	2.25	
306	AA536743	NM_145923	2.24	
307	A130040M12Rik	NR_002860	2.24	
308	Anxa5	NM_009673	2.23	
309	Mrps18b	NM_025878	2.23	
310	Stt3b	NM_024222	2.23	
311	Tgfb2	NM_009367	2.22	5, 6
312	Pde4b	NM_019840	2.22	
313	Rab6	NM_024287	2.21	3
314	Akap2	NM_001035532	2.21	
315	Lrrc59	NM_133807	2.21	
316	Cnot6	NM_212484	2.21	1
317	Fads3	NM_021890	2.21	
318	Lipa	NM_021460	2.21	
319	Rab20	NM_011227	2.21	3
320	Slc6a6	NM_009320	2.21	
321	Cfl1	NM_007687	2.20	
322	Rnf4	NM_011278	2.20	1
323	Cugbp2	NM_010160	2.19	
324	Ddx54	NM_028041	2.19	1
325	Zbtb44	NM_172765	2.19	1
326	Alg8	NM_199035	2.18	
327	Adamts15	NM_001024139	2.18	
328	Fkbp7	NM_010222	2.16	2
329	Calm1	NM_009790	2.16	
330	Polr1e	NM_022811	2.15	
331	A230046K03Rik	NM_001033375	2.15	
332	Wdr57	NM_025645	2.14	
333	Stmn1	NM_019641	2.14	
334	Tln1	NM_011602	2.14	
335	Sertad3	NM_133210	2.14	1, 6
336	Tmem57	NM_025382	2.14	
337	Prr13	NM_025385	2.14	
338	Cds2	NM_138651	2.13	
339	Cib1	NM_011870	2.13	
340	Slc26a2	NM_007885	2.12	
341	Nol5a	NM_024193	2.12	
342	Sfrs9	NM_025573	2.12	
343	Ppp1r12a	NM_027892	2.11	
344	Rrbp1	NM_024281	2.11	
345	Ppap2a	NM_008247	2.11	6
346	Pik3cb	NM_029094	2.11	
347	Tor1aip2	NM_172843	2.11	



348	Spryd3	NM_001033277	2.11	
349	Heatr5b	NM_001081179	2.11	
350	Ralb	NM_022327	2.11	3
351	Dnaja4	NM_021422	2.11	2
352	Tgm2	NM_009373	2.11	
353	Actl6a	NM_019673	2.10	1
354	Rpl14	NM_025974	2.09	
355	Srxn1	NM_029688	2.08	
356	Tubb5	NM_011655	2.08	
357	Psm11	NM_178616	2.07	
358	D17Wsu104e	NM_080837	2.06	
359	Gna13	NM_010303	2.06	
360	Rrad	NM_019662	2.06	3
361	Taldo1	NM_011528	2.06	7
362	Fstl1	NM_008047	2.06	
363	Pabpn1	NM_019402	2.06	
364	Ap2b1	NM_001035854	2.06	
365	Stip1	NM_016737	2.05	
366	Rps27l	NM_026467	2.05	
367	Sdc2	NM_008304	2.05	
368	1110019N10Rik	NM_026753	2.05	
369	Wdr1	NM_011715	2.05	
370	Popdc3	NM_024286	2.04	
371	2310037I24Rik	NM_133714	2.04	
372	Ccdc86	NM_023731	2.04	
373	Crls1	NM_001024385	2.04	
374	Tfg	NM_019678	2.04	
375	Tial1	NM_009383	2.03	
376	Rwdd4a	NM_203507	2.03	
377	Smad2	NM_010754	2.03	1
378	5730446C15Rik	NM_146096	2.01	
379	BB271151	---	2.01	
380	Dusp27	NM_001033344	2.01	
381	Siah2	NM_009174	2.00	
382	Ifngr2	NM_008338	0.50	
383	Tmed1	NM_010744	0.50	
384	Epha4	NM_007936	0.50	
385	Enpp5	NM_032003	0.50	7
386	Galm	NM_176963	0.50	
387	B3gatl1	NM_001081204	0.49	
388	Cd59a	NM_007652	0.49	
389	Rtn4ip1	NM_130892	0.49	
390	Klhl24	NM_029436	0.49	
391	Cog6	NM_026225	0.49	
392	Thrsp	NM_009381	0.49	
393	Fgf9	NM_013518	0.49	
394	Ccdc21	NM_144527	0.49	
395	Jam2	NM_023844	0.49	
396	Aig1	NM_025446	0.49	
397	Clasp2	NM_001081960	0.49	

398	Ppm1k	NM_175523	0.49	
399	Mitf	NM_008601	0.48	1
400	Rhobtb1	NM_001081347	0.48	3
401	Entpd5	NM_001026214	0.48	
402	2810405K02Rik	NM_025582	0.48	
403	Auh	NM_016709	0.48	7
404	Peci	NM_011868	0.48	7
405	Wdr33	NM_028866	0.47	
406	Lmod2	NM_053098	0.47	
407	Clip4	NM_030179	0.47	
408	Ppil1	NM_026845	0.47	2
409	Magi2	XM_001000863	0.46	
410	B3gnt1	NM_175383	0.46	
411	3110002H16Rik	NM_029623	0.46	
412	Pigy	NM_025574	0.46	
413	C030044B11Rik	XM_980322	0.46	
414	Lpl	NM_008509	0.46	
415	Art3	NM_181728	0.46	
416	4430402I18Rik	NM_198651	0.46	
417	Ctsh	NM_007801	0.46	
418	Sepp1	NM_001042613	0.45	
419	Clybl	NM_029556	0.45	
420	Klhdc1	NM_178253	0.45	
421	Pex11a	NM_011068	0.45	
422	1810014F10Rik	NM_026928	0.45	
423	Cbr1	NM_007620	0.45	7
424	2410012H22Rik	XM_126343	0.45	
425	Hod	NM_175606	0.45	1
426	Plekhb2	NM_145516	0.45	
427	Ablim1	NM_178688	0.45	
428	Decr1	NM_026172	0.45	7
429	Ccni	NM_017367	0.45	
430	Mgst3	NM_025569	0.45	
431	Coq3	NM_172687	0.44	7
432	Gstt1	NM_008185	0.44	
433	2210016H18Rik	---	0.44	
434	Apod	NM_007470	0.44	
435	AV347904	---	0.44	
436	Grb14	NM_016719	0.44	
437	Vapb	NM_019806	0.44	
438	Fahd2a	NM_029629	0.44	7
439	Fgf1	NM_010197	0.44	
440	Snrpn	NM_001082961	0.44	
441	Egflam	NM_178748	0.44	
442	Pcbd2	NM_028281	0.44	
443	Ptpn3	NM_011207	0.44	
444	Bckdhb	NM_199195	0.43	
445	Echs1	NM_053119	0.43	7
446	1810015C04Rik	NM_001034851	0.43	
447	Hrasls	NM_013751	0.43	

448	Neo1	NM_001042752	0.43	
449	Pex19	NM_023041	0.43	
450	Hlf	NM_172563	0.42	1
451	Atp6v0e2	NM_133764	0.42	
452	Mcee	NM_028626	0.42	
453	Pitpnc1	NM_145823	0.42	
454	Mettl7a	NM_027334	0.42	7
455	Ppargc1a	NM_008904	0.42	1, 7
456	Ociad2	NM_026950	0.41	
457	Slc25a11	NM_024211	0.41	
458	Adi1	NM_134052	0.41	
459	Crbn	NM_021449	0.41	
460	BB133024	---	0.41	
461	Slc25a13	NM_015829	0.41	
462	Trmt5	NM_029580	0.41	
463	2310061I04Rik	XM_001000601	0.41	
464	Ccrl2	NM_017466	0.41	
465	Dnaja2	NM_019794	0.41	2
466	Stom	NM_013515	0.41	
467	EG270335	XM_001003067	0.41	
468	Sirt5	NM_178848	0.40	1
469	Bche	NM_009738	0.40	
470	Pank1	NM_023792	0.40	
471	Myh6	NM_010856	0.40	
472	Gramd1b	NM_172768	0.40	
473	Mrpl49	NM_026246	0.40	
474	Cyt11	NM_001081106	0.39	
475	Tarsl2	NM_172310	0.39	
476	Slc22a5	NM_011396	0.39	
477	Cabc1	NM_023341	0.39	1
478	Cog8	NM_139229	0.38	
479	Asb11	NM_026853	0.38	
480	Etfdh	NM_025794	0.38	
481	Amacr	NM_008537	0.37	7
482	EG434402	XM_917134	0.37	
483	D930026N18Rik	---	0.37	
484	Slc40a1	NM_016917	0.37	
485	Siae	NM_011734	0.37	
486	Prei4	NM_001042671	0.36	
487	Acs11	NM_007981	0.36	7
488	Dpep1	NM_007876	0.36	
489	Sesn1	NM_001013370	0.36	
490	Asrgl1	NM_025610	0.36	
491	Mfsd4	NM_172510	0.36	
492	Nit2	NM_023175	0.36	
493	D930001I22Rik	NM_173397	0.36	
494	Pfkfb1	NM_008824	0.35	7
495	Ak3	NM_021299	0.35	
496	Agl	NM_001081326	0.34	
497	Vldlr	NM_013703	0.34	

498	Gpd1	NM_010271	0.34	7
499	Nqo2	NM_020282	0.34	
500	BE952563	---	0.34	
501	Acot11	NM_025590	0.34	7
502	Retsat	NM_026159	0.34	
503	Tfdp2	NM_178667	0.34	1
504	1100001H23Rik	NM_025806	0.33	
505	A2bp1	NM_021477	0.33	
506	Ccdc69	NM_177471	0.33	
507	Myot	NM_001033621	0.33	
508	Slc46a3	NM_027872	0.32	
509	Ndufs4	NM_010887	0.32	
510	4930534B04Rik	NM_181815	0.32	
511	Nmnat1	NM_133435	0.32	
512	Sgcg	NM_011892	0.32	
513	Ednra	NM_010332	0.32	7
514	Ctf1	NM_007795	0.31	
515	Lrrc27	NM_027164	0.31	
516	3632451O06Rik	NM_026142	0.31	
517	1500001A10Rik	NM_026886	0.31	
518	Cpt2	NM_009949	0.31	7
519	Sfxn4	NM_053198	0.31	
520	Pxmp2	NM_008993	0.31	
521	Cutc	NM_025530	0.31	
522	ORF28	NM_138664	0.30	2
523	4930481A15Rik	XM_980129	0.30	
524	2310014G06Rik	NM_001082975	0.30	
525	Hadh	NM_008212	0.30	7
526	Sord	NM_146126	0.30	
527	Rasl2-9	NM_009028	0.29	3
528	Mterfd3	NM_028832	0.29	1
529	Aldh5a1	NM_172532	0.29	7
530	Nr0b2	NM_011850	0.29	1
531	Slc16a10	NM_028247	0.29	
532	Slc25a20	NM_020520	0.29	
533	4833417J20Rik	---	0.28	
534	Ucp3	NM_009464	0.27	7
535	Asb15	NM_080847	0.27	1
536	C730029A08Rik	---	0.27	
537	1700040L02Rik	NM_028491	0.26	
538	BQ175377	---	0.25	
539	Rasl10b	NM_001013386	0.25	3
540	Slc25a20	NM_020520	0.25	
541	Asb2	NM_023049	0.25	1
542	Tbl1xr1	NM_030732	0.25	1
543	Rxrg	NM_009107	0.25	1
544	Slc27a1	NM_011977	0.25	7
545	Itgb1bp2	NM_013712	0.25	
546	Fndc5	NM_027402	0.24	
547	Acy3	NM_027857	0.24	7

548	AW989410	---	0.24	
549	Nudt7	NM_024437	0.24	
550	Tcea3	NM_011542	0.24	1
551	Herpud2	NM_020586	0.23	2, *
552	A530016L24Rik	NM_177039	0.23	
553	Asb10	NM_080444	0.23	1
554	Asb15	NM_080847	0.23	
555	1110034G24Rik	XM_001000361	0.23	
556	1700025K23Rik	NM_183254	0.23	
557	Sgca	NM_009161	0.23	
558	Atp1a2	NM_178405	0.23	7

559	Acot1	NM_012006	0.23	
560	Csdc2	NM_145473	0.22	1
561	Lrg1	NM_029796	0.22	
562	Gzmm	NM_008504	0.22	
563	Btbd2	XM_001000710	0.22	
564	Kcnj11	NM_010602	0.22	
565	Rad23a	NM_009010	0.21	
566	Wipf3	XM_620310	0.21	
567	Ephx2	NM_007940	0.21	7
568	Gdpd1	NM_025638	0.20	
569	Hhatl	NM_029095	0.20	
570	Gstk1	NM_029555	0.20	
571	Selenbp1	NM_009150	0.20	
572	Adssl1	NM_007421	0.20	
573	Cutl2	NM_007804	0.20	1
574	Fblim1	NM_133754	0.20	
575	Tbc1d10c	NM_178650	0.19	
576	Fah	NM_010176	0.19	1, 7
577	Wdr21	NM_030246	0.19	
578	Asb14	NM_080856	0.19	
579	Mlycd	NM_019966	0.19	7
580	Mme	NM_008604	0.19	
581	Art4	NM_026639	0.19	
582	Kcnv2	NM_183179	0.18	
583	D2hgdh	NM_178882	0.18	
584	Frem2	NM_172862	0.17	
585	Cmbl	NM_181588	0.17	
586	2310076L09Rik	NM_001077348	0.17	
587	Aldob	NM_144903	0.17	7
588	Oplah	NM_153122	0.16	
589	Fbp2	NM_007994	0.16	7
590	Ces3	NM_053200	0.16	
591	Art1	NM_009710	0.16	
592	Inmt	NM_009349	0.15	
593	Cmtm8	NM_027294	0.14	
594	Lrtm1	NM_176920	0.14	
595	Impa2	NM_053261	0.14	
596	Ky	NM_024291	0.14	
597	P2ry1	NM_008772	0.12	
598	BB515119	---	0.11	
599	2310010M20Rik	NM_183283	0.11	
600	Pdlim4	NM_019417	0.10	
601	C730027J19Rik	NM_178758	0.10	7
602	Klf15	NM_023184	0.09	1,7
603	Ogdh	NM_010956	0.08	7
604	Apba3	NM_001081208	0.08	
605	Tll1	NM_178869	0.06	
606	Slc25a34	NM_001013780	0.06	
607	Fn3k	NM_001038699	0.03	