

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
1	Feature ID	Fold Change: FSH/Veh RPKM	Veh: Unique gene reads	Veh: RPKM	FSH: Unique gene reads	FSH: RPKM	
2	AABR07002068.1	∞	1205	0	824	0.09	Genes up-regulated by FSH
3	AABR07056415.1	∞	3	0	33	1.05	
4	Acsm3	∞	21	0	21	0.71	
5	Acsm5	∞	2	0	23	1.1	
6	Aox2	∞	9	0	27	0.66	
7	Auts2l	∞	37	0	42	0.55	
8	Brinp3	∞	26	0	14	0.24	
9	Cacna1d	∞	11	0	20	0.26	
10	Ccdc81	∞	36	0	16	0.19	
11	Cml5	∞	10	0	43	1.22	
12	Cyp19a1	∞, > 27.7	0	0	278	27.7	
13	Dpp6	∞	17	0	20	0.73	
14	Edil3	∞	20	0	15	0.82	
15	Fam189a1	∞	86	0	70	0.23	
16	Fstl5	∞	19	0	24	0.1	
17	Gabbr2	∞	10	0	39	0.26	
18	Grid2	∞	12	0	24	0.18	
19	Heatr9	∞, > 3.31	1	0	20	3.31	
20	Hist1h2bo	∞	29	0	37	2.45	
21	Inmt	∞, >27.1	0	0	85	27.12	
22	Iqcg	∞	169	0	94	0.12	
23	Itgam	∞	749	0	1144	0.05	
24	Kcne4	∞, > 33.96	0	0	59	33.96	
25	Kcnh8	∞	37	0	17	0.1	
26	L3mbtl4	∞	8	0	84	1.04	
27	Lrrc74b	∞, > 4.12	0	0	25	4.12	
28	Megf11	∞	30	0	26	0.21	
29	Mmd2	∞, > 4.56	1	0	37	4.56	
30	Nos1	∞	152	0	210	0.11	
31	Pld5	∞	14	0	23	0.3	
32	Ptpr	∞	29	0	33	0.1	
33	Ptprt	∞	23	0	23	0.1	
34	RGD1564074	∞, > 2.22	1	0	22	2.22	
35	Ric3	∞	16	0	28	0.18	
36	Rn60_X_0640.3	∞	14	0	26	0.45	
37	Rnf152	∞, > 2.11	1	0	40	2.11	
38	Rtp2	∞	70	0	72	0.39	
39	Serpine3	∞	27	0	15	0.3	
40	Setbp1	∞	4	0	30	1.18	
41	Slc7a9	∞	22	0	5	0.42	
42	Srgap3	∞, > 2.64	6	0	62	2.64	
43	Stox1	∞	3	0	23	1.2	
44	Sycp3	∞	10	0	28	0.66	
45	Tmem132d	∞	19	0	23	0.11	
46	Tmprss11d	∞	16	0	26	0.22	
47	Slc26a7	284.81	12	0.05	267	13.42	
48	Lhcgr	215.06	3	0.24	419	50.96	
49	Cyp11a1	204.53	5	0.5	686	102.64	
50	Ass1	91.55	4	0.48	211	43.73	

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51	Chst1	69.75	3	0.11	50	7.36	
52	Fam110c	65.39	2	0.08	46	5.24	
53	Acsbg1	61.39	5	0.32	193	19.93	
54	Mrap	59.58	2	0.6	107	35.51	
55	Nppc	51.59	2	0.49	41	25.2	
56	Map2k6	50.86	4	0.12	100	5.97	
57	Rasd1	50.44	7	1.05	244	52.75	
58	Kcnq1	45.05	152	0.06	123	2.81	
59	Rxrg	45.05	1	0.12	33	5.29	
60	Rasal1	43.59	2	0.08	33	3.35	
61	Nptx2	41.88	18	1.44	338	60.22	
62	Calml3	41.66	3	0.54	86	22.65	
63	Slc6a7	40.69	1	0.05	37	2.18	
64	LOC100911154	39.97	203	17.44	4860	697	
65	Trim7	39.23	4	0.33	95	12.75	
66	AY172581.20	37.78	1	3.61	16	136.43	
67	Tmem178b	37.05	4	0.05	62	1.93	
68	Kit	35.96	8	0.19	106	6.81	
69	Grid1	33.42	13	0.09	41	3.02	
70	RGD1309821	33.42	2	0.11	24	3.57	
71	Tmem25	33.42	2	0.1	24	3.28	
72	Cldn11	31.97	2	0.13	22	4.3	
73	Grik1	31.97	3	0.08	34	2.58	
74	Ereg	30.52	2	0.12	24	3.62	
75	Igfbp4	29.95	32	3.55	646	106.32	
76	Wfdc10	29.06	1	0.51	20	14.87	
77	Star	27.8	16	3.24	310	90.05	
78	Fgl2	27.61	1	0.07	3	1.87	
79	Adgrb1	27.61	7	0.18	102	4.86	
80	Stox2	27.61	6	0.04	29	1.2	
81	Ccrl2	26.16	1	0.12	18	3.26	
82	Exoc3l1	26.16	3	0.2	46	5.19	
83	Tmem132c	26.16	7	0.08	34	2.02	
84	Lrrc17	25.43	1	0.24	13	6.14	
85	Fam198a	25.43	2	0.23	61	5.86	
86	Ddit4	25.14	11	1.45	175	36.42	
87	Fads6	24.22	5	0.42	58	10.08	
88	Cybb	23.98	3	0.12	33	2.79	
89	Raet1c	23.98	6	0.42	33	10.08	
90	Scarb1	23.49	292	24.4	4486	573.11	
91	Tmem86a	22.89	14	1.65	193	37.79	
92	Prlr	22.28	16	0.25	265	5.6	
93	Ly6g6e	21.8	2	0.96	37	21.01	
94	RGD1306091	21.8	7	0.08	26	1.82	
95	Crabp2_2	21.8	12	4.99	202	108.76	
96	Slc37a2	21.8	3	0.05	20	1.18	
97	Etnk2	20.81	34	2.55	388	53.06	
98	Hunk	19.86	15	0.35	61	6.92	
99	Nxpe2	18.89	1	0.3	17	5.65	
100	Rhbg	18.89	2	0.1	18	1.87	
101	Acpp	18.16	3	0.09	25	1.6	
102	Fdxr	18.12	18	2.03	217	36.78	
103	Sfrp4	18.06	9	0.38	89	6.86	
104	Fbxl8	17.44	4	0.13	16	2.22	

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105	Hao2	17.44	6	0.23	69	3.94	
106	Phyhip_2	17.44	0	0.27	0	4.7	
107	Vom2r6	17.44	2	0.2	28	3.44	
108	Myom2	16.95	6	0.17	37	2.81	
109	Grem2	16.32	67	4.02	767	65.62	
110	Adck3	16.13	11	0.97	131	15.57	
111	Tenm2	15.98	17	0.03	36	0.43	
112	Cited4	15.98	1	0.28	11	4.46	
113	Dner	15.98	5	0.16	13	2.6	
114	Spef1	15.98	2	0.17	12	2.65	
115	Scube1	15.98	3	0.06	21	0.94	
116	Adcyap1r1	15.5	5	0.12	37	1.8	
117	Bmp6	15.5	35	1.47	178	22.85	
118	Hsd11b2	15.26	2	0.27	22	4.08	
119	Pgm5	14.89	9	0.58	64	8.71	
120	Pappa	14.66	16	0.53	174	7.79	
121	Atp1b2	14.57	37	2.9	350	42.24	
122	RGD1561916	14.53	3	0.21	13	3.11	
123	Dusp15	14.53	1	0.08	10	1.16	
124	Ecel1	14.53	1	0.03	10	0.49	
125	Pde4d	14.53	81	0.83	176	12.04	
126	SNORD36_6	14.53	0	3.51	0	51	
127	Sox18	14.53	4	0.61	40	8.86	
128	Trpc2	14.53	6	0.06	16	0.86	
129	Unc5d	14.53	12	0.25	58	3.6	
130	Rasgef1b	14.4	38	3.07	381	44.24	
131	Myo7a	14.24	8	0.18	64	2.61	
132	Inha	13.99	1520	265.89	14653	3720.95	
133	Myrip	13.95	6	0.27	87	3.74	
134	Cyp17a1	13.8	2	0.27	19	3.77	
135	Gstt1	13.8	5	0.53	20	7.26	
136	Tubb4a	13.8	2	0.23	20	3.21	
137	Btbd11	13.47	71	0.8	270	10.78	
138	AABR07068327.1	13.08	1	0.88	14	11.56	
139	Acan	13.08	8	0.04	11	0.47	
140	Aldh1l1	13.08	3	0.08	14	1.08	
141	Bsn	13.08	6	0.02	12	0.2	
142	Epcam	13.08	1	0.17	9	2.23	
143	Kirrel3	13.08	21	0.07	40	0.94	
144	Ldlrad1	13.08	6	0.13	10	1.75	
145	Prkcb	13.08	23	0.29	131	3.83	
146	Syn3	13.08	131	0.11	131	1.44	
147	Tmem45al	13.08	5	0.32	6	4.13	
148	Dpep2	13.08	2	0.15	11	2	
149	Hbq1b	13.08	1	0.58	9	7.54	
150	Sgk1	12.99	94	5.66	749	73.46	
151	Smoc2	12.93	10	0.8	106	10.33	
152	Flvcr2	12.84	23	1.29	203	16.59	
153	Tns4	12.79	20	1.12	167	14.32	
154	Isyna1	12.65	393	48.66	3424	615.35	
155	Folr1	12.43	9	2.16	80	26.81	
156	Lilrb3l	12.25	291	0.34	212	4.19	
157	Tbc1d30	12.25	11	0.77	81	9.38	
158	Gsta1	11.76	18	1.89	110	22.18	

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159	Dnah9	11.62	26	0.02	36	0.22	
160	Faah_1	11.62	0	0.14	0	1.66	
161	Nr0b1	11.62	10	1.4	81	16.27	
162	Aard	11.62	1	0.2	8	2.33	
163	Ap5z1	11.62	2	0.51	13	5.94	
164	AY172581.3	11.62	2	7.33	16	85.19	
165	Cntfr	11.62	2	0.13	10	1.56	
166	Gldn	11.62	11	0.84	78	9.72	
167	Hsd17b13	11.62	5	0.19	22	2.23	
168	Hsf2bp	11.62	7	0.09	21	1.08	
169	Mt1m	11.62	0	0.67	1	7.74	
170	SNORA7_2	11.62	0	1.78	0	20.69	
171	SNORD42_1	11.62	0	3.83	0	44.56	
172	Syt13	11.62	2	0.07	10	0.84	
173	Wfikkn2	11.62	1	0.08	10	0.88	
174	Oas1a	11.43	12	1.84	100	21.03	
175	Slc27a6	11.38	6	0.49	56	5.63	
176	Kcnt1	11.31	23	0.6	163	6.74	
177	Fbxo2	11.14	3	0.57	24	6.41	
178	Rplp1_2	11.14	1	2.17	9	24.21	
179	Ptx3	11.08	3	1.04	14	11.48	
180	AABR07001634.1	10.9	2	0.34	16	3.7	
181	AABR07002969.1	10.9	13	1.01	21	11.04	
182	AY172581.10	10.9	2	7.33	15	79.87	
183	Cebpa	10.82	27	2.52	200	27.23	
184	Srcin1	10.75	20	0.52	242	5.6	
185	Lrrc4b	10.66	8	0.55	45	5.9	
186	Hsd17b1	10.61	26	4.03	174	42.81	
187	Cgnl1	10.55	62	2.02	461	21.28	
188	Nrbp2	10.44	86	7.14	588	74.54	
189	Asphd2	10.38	18	1.2	128	12.5	
190	Hmgcs2	10.21	489	54.12	3312	552.64	
191	Abca8	10.17	4	0.1	24	1.04	
192	AC103129.2	10.17	0	0.17	0	1.73	
193	Adgrg3	10.17	10	0.08	29	0.81	
194	Tmem258	10.17	1	1.77	2	17.98	
195	AY172581.17	10.17	1	4.15	7	42.24	
196	Dnah11	10.17	10	0.02	25	0.19	
197	ENSRNOG00000051	10.17	1	0.8	7	8.12	
198	Fermt1	10.17	14	0.55	83	5.55	
199	Mcf2l	10.17	10	0.04	21	0.41	
200	Mctp2	10.17	11	0.03	30	0.29	
201	Pnmal2	10.17	2	0.19	14	1.97	
202	RT1-S3	10.17	1	0.14	5	1.43	
203	Rtp4	10.17	1	0.13	8	1.31	
204	Sik1	10.02	94	4.45	623	44.6	
205	Slc25a30	9.94	89	9.51	543	94.57	
206	Sostdc1	9.72	42	5.94	284	57.71	
207	Rims4	9.69	5	0.76	28	7.38	
208	Jak3	9.69	2	0.19	14	1.83	
209	Mgll	9.69	14	0.55	52	5.36	
210	Dnm1	9.45	6	0.16	23	1.47	
211	Mypop	9.45	5	0.12	20	1.12	
212	Abcc9	9.45	7	0.14	31	1.31	

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213	Htr1b	9.45	4	0.65	26	6.12	
214	Kif26b	9.45	24	0.2	88	1.9	
215	Mt1_1	9.45	0	3.84	0	36.3	
216	RGD1563680	9.45	27	0.18	62	1.75	
217	Ifitm3	9.41	18	6.76	116	63.62	
218	Fam222a	9.39	24	1.79	123	16.83	
219	Inhbb	9.3	120	8.95	720	83.23	
220	Tnfaip6	9.2	6	0.55	22	5.05	
221	Trpm3	9.2	30	0.11	82	1.05	
222	Cbfa2t3	9.08	33	1.41	147	12.8	
223	Csdc2	8.83	64	5.25	379	46.38	
224	Cdo1	8.72	4	0.33	14	2.87	
225	Fgf22	8.72	25	0.51	24	4.44	
226	LOC100362409	8.72	0	0.33	0	2.87	
227	Slc25a21	8.72	12	0.12	20	1.03	
228	AC119015.2	8.72	14	0.86	37	7.47	
229	Aldh1a3	8.72	1	0.07	6	0.64	
230	Ccdc114	8.72	7	0.1	20	0.84	
231	Cdh1	8.72	2	0.06	7	0.49	
232	Cftr	8.72	4	0.04	12	0.32	
233	Chrne	8.72	2	0.14	8	1.22	
234	Gal3st4	8.72	3	0.11	8	0.98	
235	Gja4	8.72	1	0.16	6	1.37	
236	Igln5	8.72	2	0.49	12	4.3	
237	Kcnc2	8.72	18	0.07	27	0.59	
238	Kcnn1	8.72	3	0.09	8	0.82	
239	LOC100911963	8.72	0	0.24	0	2.12	
240	Nell1	8.72	16	0.09	36	0.75	
241	Nfkbil1	8.72	1	0.15	6	1.29	
242	Pcdh8	8.72	1	0.08	6	0.68	
243	Plxna4a	8.72	6	0.04	18	0.38	
244	Pramef8	8.72	0	0.07	3	0.59	
245	Ptgds	8.72	1	0.32	6	2.76	
246	Ptprz1	8.72	7	0.03	12	0.28	
247	Rab3il1	8.72	1	0.22	7	1.92	
248	SNORD74	8.72	1	3.08	6	26.82	
249	Spock2	8.72	22	1.56	83	13.6	
250	Sstr3	8.72	1	0.06	7	0.56	
251	Sybu	8.72	5	0.08	9	0.7	
252	Tgfb1	8.72	11	0.84	59	7.32	
253	Tmem184a	8.72	3	0.24	14	2.09	
254	Tmem198	8.72	3	0.31	19	2.73	
255	Tppp	8.72	2	0.2	8	1.73	
256	Ttyh2	8.72	5	0.36	27	3.17	
257	Efcc1	8.72	6	0.15	18	1.29	
258	SNORD71	8.72	1	2.97	6	25.86	
259	Gdpd5	8.63	21	1.26	113	10.87	
260	Greb1l	8.62	98	3.36	526	28.99	
261	Hba2	8.61	190	121.23	1074	1043.3	
262	Abi3bp	8.6	77	1.76	215	15.11	
263	5_8S_rRNA_1	8.48	4	2177.35	14	18470.2	
264	Derl3	8.48	10	2.18	38	18.45	
265	Scg2	8.48	6	0.62	37	5.26	
266	Dapk1	8.4	52	1.74	287	14.6	

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267	Phyhip_1	8.36	0	0.32	0	2.65	
268	Mro	8.32	26	2.68	132	22.32	
269	Kcng2	8.23	17	0.81	63	6.7	
270	Mgat3	8.23	3	0.28	17	2.3	
271	Micall2	8.23	7	0.23	22	1.91	
272	Tenm4	8.23	197	4.14	1056	34.08	
273	Col24a1	7.99	5	0.12	22	0.98	
274	Efcab6	7.99	9	0.1	21	0.84	
275	Slc46a3	7.99	5	0.21	12	1.65	
276	Tmtc2	7.96	132	5.17	670	41.14	
277	AY172581.21	7.91	26	94.75	145	749.64	
278	Dhrs3	7.91	10	1.08	63	8.53	
279	Abcc10	7.89	9	0.24	43	1.87	
280	Elmo1	7.82	86	5.6	457	43.85	
281	LOC501189	7.75	15	0.93	75	7.24	
282	Plau	7.75	26	3.19	131	24.72	
283	Chst15	7.72	39	1.35	157	10.43	
284	SNORD44_1	7.63	4	16.34	21	124.65	
285	Tst	7.63	30	6.38	140	48.7	
286	Ackr3	7.6	32	3.86	171	29.36	
287	Wnt5a	7.59	10	0.45	51	3.41	
288	Net1	7.58	108	8.18	559	62.05	
289	Gch1	7.56	11	0.84	46	6.35	
290	Sepp1	7.56	10	4.09	56	30.92	
291	Trim62	7.56	28	1.74	96	13.18	
292	Gem	7.52	18	2.61	96	19.6	
293	Selenbp1_2	7.5	0	5.33	0	39.97	
294	AABR07035065.1	7.27	1	0.16	4	1.17	
295	Ablim2	7.27	12	0.24	29	1.78	
296	Catsperd	7.27	17	0.36	65	2.61	
297	Fbxo36	7.27	17	0.23	33	1.64	
298	Fndc8	7.27	1	0.11	7	0.78	
299	Galnt12	7.27	1	0.14	5	1.04	
300	Gpx3	7.27	10	1.36	43	9.87	
301	Npas2	7.27	6	0.06	22	0.42	
302	Pianp	7.27	2	0.17	11	1.22	
303	Slc2a3	7.27	21	0.7	52	5.05	
304	Slc35g2	7.27	1	0.16	9	1.16	
305	Slc5a2	7.27	0	0.1	3	0.76	
306	SNORD45_2	7.27	0	3.08	0	22.35	
307	Tgfb3l	7.27	9	0.28	8	2.02	
308	A2m	7.27	0	0.05	1	0.4	
309	AABR07034293.1	7.27	0	0.43	2	3.09	
310	Ankrd55	7.27	10	0.09	20	0.63	
311	Ano3	7.27	11	0.04	13	0.3	
312	AY172581.14	7.27	1	3.32	5	24.14	
313	Cyp4f1	7.27	1	0.11	6	0.81	
314	Duoxa1	7.27	1	0.15	5	1.09	
315	Fam115c_1	7.27	0	0.23	2	1.65	
316	G0s2	7.27	1	0.34	5	2.48	
317	Itgb4	7.27	6	0.04	6	0.27	
318	Kcnh2	7.27	71	3.84	402	27.87	
319	LOC100362176	7.27	1	0.33	5	2.43	
320	Lypd3	7.27	3	0.15	5	1.08	

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321	Nt5m	7.27	18	0.57	31	4.13	
322	Plip	7.27	6	0.17	12	1.23	
323	RGD1564469	7.27	1	0.3	5	2.16	
324	Rilp	7.27	1	0.23	8	1.64	
325	Sbsn	7.27	3	0.11	7	0.83	
326	SNORD83_2	7.27	0	6.31	0	45.83	
327	Ttc30b	7.27	5	0.49	18	3.52	
328	XAF1	7.27	26	0.91	34	6.63	
329	Zbtb7c	7.27	21	0.06	22	0.45	
330	Zfp605	7.27	2	0.15	10	1.12	
331	AABR07068163.1	7.27	2	0.26	9	1.9	
332	Slc25a18	7.27	4	0.13	8	0.92	
333	SNORA7_1	7.27	0	1.78	0	12.93	
334	Susd3	7.27	2	0.19	6	1.42	
335	Tcte1	7.27	3	0.15	17	1.11	
336	Zfp383_1	7.27	0	0.09	0	0.64	
337	Chst8	7.24	123	5.94	352	42.95	
338	Fdx1	7.17	55	8.52	241	61.1	
339	Rab7l1	7.12	40	5.57	196	39.65	
340	Ptgr1	7.04	18	2.63	77	18.51	
341	Cacna2d3	6.96	217	1.83	1614	12.71	
342	Celsr2	6.95	70	1.53	312	10.65	
343	Abo	6.9	4	0.6	19	4.13	
344	Trpt1	6.9	1	0.35	13	2.39	
345	Galnt6	6.85	9	0.46	43	3.15	
346	Tox	6.8	61	2.74	401	18.61	
347	Irf4	6.78	5	0.16	16	1.05	
348	Plxnc1	6.75	283	12.55	1297	84.67	
349	Fbxo44	6.7	41	5.86	175	39.31	
350	Emilin3	6.68	5	0.51	24	3.41	
351	AABR07028245.1	6.62	0	0.75	0	4.97	
352	Iqgap2	6.59	60	0.5	129	3.3	
353	5_8S_rRNA_23	6.54	0	3.24	4	21.16	
354	Pcdhb5	6.54	2	0.19	6	1.26	
355	Slc7a4	6.54	6	0.64	27	4.15	
356	Spata18	6.54	2	0.24	11	1.55	
357	Zfp879	6.54	3	0.21	10	1.38	
358	Ppapdc1a	6.54	9	0.4	19	2.62	
359	SNORD29_1	6.54	1	7.79	9	50.92	
360	Prkce	6.48	34	1.67	89	10.85	
361	Mt1_2	6.44	3	5.01	10	32.25	
362	Clstn3	6.39	6	0.32	23	2.02	
363	Lmo2	6.39	6	0.68	31	4.35	
364	AABR07011951.1	6.39	2	10.46	24	66.83	
365	Caskin1	6.37	21	0.55	75	3.48	
366	Rap1gap2	6.36	46	0.87	148	5.55	
367	Nr5a1	6.36	210	19.53	863	124.12	
368	Egfr	6.35	115	4.85	460	30.83	
369	Cmpk2	6.3	3	0.19	13	1.23	
370	MacroD1	6.3	18	0.58	41	3.63	
371	Slc27a1	6.3	172	12.2	703	76.82	
372	SNORD87	6.3	0	8.79	0	55.38	
373	Ypel1	6.3	10	2.03	27	12.76	
374	Enpp2	6.3	6	0.28	13	1.77	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
375	Sord	6.21	41	3.85	188	23.89	
376	Sema6d	6.18	12	0.32	37	1.99	
377	B4galt1	6.17	445	29.91	1462	184.59	
378	Fam122b	6.1	0	0.45	1	2.77	
379	Omd	6.1	0	1.96	1	11.97	
380	Gramd1b	6.09	78	3.61	311	21.99	
381	Sbk1	6.06	0	1.79	0	10.88	
382	Thnsl2	6.02	15	0.96	54	5.8	
383	Olfml2a	5.99	8	0.34	35	2.03	
384	Phyhipl	5.99	18	1.23	65	7.37	
385	Lhpp	5.97	18	1.37	65	8.17	
386	Fam46c	5.92	37	3.33	120	19.69	
387	Boc	5.92	22	0.84	84	4.98	
388	Fam43a	5.87	24	2.51	97	14.73	
389	AABR07041096.1	5.86	31	1.62	113	9.49	
390	AABR07036331.2	5.81	63	0.26	80	1.49	
391	AABR07043169.1	5.81	1	0.53	4	3.09	
392	AABR07051326.1	5.81	1	0.09	2	0.53	
393	Aurkc	5.81	18	1.12	31	6.54	
394	Bcl11b	5.81	6	0.04	4	0.25	
395	Cabp4	5.81	6	0.35	20	2.01	
396	Ccdc28b	5.81	9	0.81	21	4.71	
397	Chrd	5.81	3	0.15	8	0.89	
398	Duox2	5.81	1	0.04	5	0.26	
399	Egflam	5.81	6	0.06	11	0.33	
400	Eml6	5.81	25	0.07	30	0.43	
401	Hfe	5.81	1	0.1	5	0.61	
402	Kcnk5	5.81	7	0.36	22	2.09	
403	Kdm4d_1	5.81	1	0.11	4	0.62	
404	LOC100909593	5.81	0	0.17	0	0.99	
405	Lrfn5	5.81	13	0.08	12	0.48	
406	Mei1	5.81	7	0.06	10	0.36	
407	Mfsd4	5.81	13	0.28	7	1.61	
408	Nudt15	5.81	7	0.23	17	1.36	
409	Plac1_1	5.81	1	0.24	2	1.37	
410	Plet1	5.81	1	0.16	4	0.96	
411	Prdm8	5.81	3	0.12	4	0.7	
412	Prss36	5.81	7	0.18	9	1.05	
413	Rab40b	5.81	5	0.13	12	0.77	
414	RGD1561157	5.81	1	0.3	4	1.73	
415	Rn60_10_0699.2	5.81	1	0.47	4	2.73	
416	Spint1	5.81	1	0.1	3	0.6	
417	Spint3	5.81	6	0.94	8	5.49	
418	Tle2	5.81	6	0.35	17	2.04	
419	Tmem151b	5.81	5	0.15	8	0.86	
420	Tnfsf10	5.81	9	0.45	30	2.64	
421	Tshr	5.81	9	0.05	10	0.27	
422	Ufsp1	5.81	1	0.38	4	2.21	
423	Xpa	5.81	42	0.21	39	1.2	
424	7SK_400	5.81	0	0.78	0	4.55	
425	AABR07015719.1	5.81	0	0.54	0	3.13	
426	AABR07017110.1	5.81	0	0.28	0	1.6	
427	AABR07028970.2	5.81	8	0.81	7	4.69	
428	AABR07072761.1	5.81	1	0.29	1	1.68	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
429	AC107531.2	5.81	1	0.28	4	1.65	
430	AC111319.3	5.81	0	0.81	0	4.73	
431	Ctf1	5.81	3	0.36	8	2.07	
432	Cux2	5.81	16	0.1	17	0.57	
433	Dcxr	5.81	2	0.44	8	2.54	
434	Dlg2	5.81	19	0.1	22	0.57	
435	Dnajb13	5.81	6	0.11	7	0.64	
436	Flywch2	5.81	2	0.4	8	2.35	
437	Hist1h1d	5.81	1	0.38	4	2.19	
438	Kif17	5.81	8	0.14	13	0.78	
439	Lancl3	5.81	11	0.2	12	1.15	
440	LOC100361240	5.81	0	0.99	3	5.75	
441	LOC100912338	5.81	1	0.65	4	3.8	
442	LOC500331	5.81	32	0.41	78	2.4	
443	Lppr3	5.81	2	0.2	4	1.14	
444	Matk	5.81	3	0.15	6	0.89	
445	Msr1	5.81	166	0.04	173	0.25	
446	Mtmr7	5.81	14	0.09	9	0.52	
447	Pde9a	5.81	5	0.22	18	1.28	
448	Plekhn1	5.81	10	0.18	19	1.03	
449	Plp1	5.81	9	0.49	27	2.86	
450	Pmch	5.81	0	0.11	0	0.65	
451	Prg4	5.81	3	0.16	12	0.91	
452	Slc8a3	5.81	44	0.06	80	0.33	
453	SNORD14_4	5.81	0	2.97	0	17.24	
454	Spn	5.81	1	0.06	4	0.37	
455	Thsd1	5.81	4	0.06	11	0.34	
456	Tmem220	5.81	3	0.43	6	2.51	
457	Zfp353	5.81	1	0.16	4	0.91	
458	Gria1	5.68	28	0.92	69	5.23	
459	Rmdn2	5.64	29	2.03	174	11.48	
460	Igdcc4	5.64	88	4.49	320	25.33	
461	AC106663.1	5.63	0	0.72	0	4.06	
462	C1qtnf6	5.63	8	0.67	31	3.78	
463	Ifi2712b	5.59	40	17.68	125	98.75	
464	Faah_2	5.57	3	0.42	8	2.33	
465	Tert	5.57	10	0.44	31	2.47	
466	Mzf1	5.57	11	0.41	34	2.31	
467	Ccbe1	5.56	97	19.21	346	106.73	
468	Tmem216	5.55	17	2.09	44	11.61	
469	AABR07027870.1	5.52	6	0.4	11	2.23	
470	C4b	5.52	4	0.23	11	1.29	
471	LOC102555919	5.52	8	0.29	20	1.62	
472	Kcnma1	5.5	66	0.73	141	4.04	
473	Selenbp1_1	5.48	0	8.83	0	48.44	
474	Adgrg1	5.45	1769	107.52	6393	585.93	
475	Angptl1	5.45	60	0.39	122	2.14	
476	Pard6a	5.45	4	0.28	12	1.52	
477	Tmem14a	5.45	3	0.92	13	5.02	
478	Dfnb31	5.42	80	3.23	283	17.47	
479	Gstt3	5.4	9	0.98	31	5.27	
480	Lrrn3	5.39	216	15.98	788	86.21	
481	Abhd8	5.39	50	5.61	179	30.28	
482	AC126892.1	5.39	0	1.89	0	10.19	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
483	Bckdha	5.39	77	8.15	265	43.92	
484	Pfkm	5.38	240	17.67	841	95.1	
485	Cybrd1	5.37	15	0.83	53	4.45	
486	Adck1	5.33	27	1.08	59	5.74	
487	Ccpg1os	5.33	3	1.01	11	5.4	
488	Lrrc56	5.33	7	0.35	7	1.87	
489	Magee2	5.33	3	0.35	11	1.87	
490	Matn2	5.33	160	0.86	158	4.57	
491	Tmem56	5.33	4	0.71	13	3.78	
492	Rn60_13_0839.5	5.23	20	0.88	54	4.61	
493	Tmem79	5.23	3	0.2	9	1.07	
494	Inhba	5.2	640	57.66	2225	299.69	
495	Aldh3b1	5.19	6	0.79	13	4.1	
496	Acad10	5.18	46	2.02	149	10.45	
497	Trim2	5.18	152	4.77	492	24.71	
498	AABR07064724.1	5.15	0	34.26	1	176.51	
499	Mmp11	5.13	296	45.58	1028	233.77	
500	Irs3	5.09	4	0.51	14	2.57	
501	Lace1	5.09	35	0.58	42	2.94	
502	LOC100361636	5.09	0	0.2	1	1.02	
503	Mrpl53_1	5.09	0	1.38	0	7.04	
504	Pcdhga3	5.09	2	0.21	7	1.05	
505	AABR07027212.1	5.09	3	2.24	7	11.42	
506	Arg2	5.09	15	0.33	17	1.66	
507	Arrb2	5.09	20	2.63	59	13.36	
508	Astn2	5.09	43	0.11	79	0.56	
509	Ceacam18	5.09	7	0.44	9	2.23	
510	Cradd	5.09	10	0.63	15	3.2	
511	Cubn	5.09	6	0.04	11	0.22	
512	Dmtn	5.09	6	0.15	7	0.75	
513	Efna1	5.09	5	0.65	14	3.3	
514	Rad9b	5.09	19	0.29	29	1.47	
515	Rn60_X_0224.3	5.09	25	0.76	38	3.88	
516	SNORD100	5.09	0	6.64	0	33.79	
517	Dhh	5.04	17	1.71	62	8.62	
518	Tmem252	5.03	16	1.56	48	7.84	
519	Slc7a7	4.98	20	0.98	42	4.88	
520	Tmem38b	4.97	109	9.02	355	44.85	
521	Papln	4.96	30	0.65	54	3.24	
522	Usp49	4.95	53	1.49	164	7.36	
523	Csrnp3	4.94	85	2.46	334	12.14	
524	Ephx2	4.94	7	0.59	20	2.9	
525	Irak2	4.94	14	0.42	33	2.09	
526	Kcnab1	4.94	77	1.07	208	5.29	
527	Brms1_2	4.94	0	1.69	0	8.34	
528	Prkar2b	4.94	822	53.14	2893	262.47	
529	Sesn3	4.92	74	5.72	257	28.14	
530	Gstt2	4.91	31	3.81	90	18.7	
531	Gpcpd1	4.88	68	3.26	232	15.9	
532	Ihh	4.88	17	1.54	48	7.49	
533	Atp2b4	4.85	191	4.99	602	24.23	
534	Fuca1	4.85	385	56.08	1301	272.09	
535	AABR07045680.1	4.84	5	0.94	14	4.55	
536	AABR07062344.2	4.84	0	0.89	6	4.3	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
537	C1rl	4.84	9	0.64	28	3.11	
538	Pelo	4.84	1	0.47	6	2.27	
539	Pth1r	4.84	7	0.34	13	1.64	
540	Snai2	4.84	3	0.38	10	1.85	
541	Tmem218	4.84	3	0.58	15	2.83	
542	AABR07008379.1	4.84	0	1.71	1	8.27	
543	Lce1m	4.84	5	0.9	11	4.37	
544	S100b	4.84	4	0.5	11	2.44	
545	Slc25a35	4.84	6	0.88	25	4.25	
546	Slco5a1	4.84	46	1.3	134	6.3	
547	Tekt1	4.84	4	0.52	20	2.53	
548	Tprkb_1	4.84	0	0.46	3	2.23	
549	Msh2	4.81	145	10.47	474	50.39	
550	Brd8	4.8	367	18.95	1240	90.89	
551	Adck5	4.74	120	7.65	419	36.27	
552	Zfp647	4.72	0	0.62	0	2.93	
553	Coch	4.72	16	0.41	17	1.95	
554	Hdhd3	4.72	4	0.84	13	3.99	
555	Tex9	4.72	21	0.6	33	2.85	
556	Zcchc24	4.69	56	2.25	148	10.56	
557	Ptpn4	4.67	395	6.81	1186	31.79	
558	Dach1	4.65	52	1.56	119	7.27	
559	Sod3	4.65	5	0.72	16	3.35	
560	Zfp347	4.63	14	2.29	38	10.59	
561	Acss3	4.63	66	2.09	193	9.68	
562	Rassf2	4.62	24	1.24	58	5.74	
563	Sifn3	4.6	7	0.28	21	1.31	
564	Bst2	4.58	143	41.68	451	190.77	
565	Havcr1	4.57	18	0.89	43	4.07	
566	Hdac4	4.54	203	6.86	604	31.16	
567	Fhdc1	4.54	63	2.97	173	13.49	
568	Fth1	4.53	515	574.28	1539	2602.97	
569	RT1-CE5	4.52	8	2.43	14	10.98	
570	7SK_212	4.48	41	88.83	102	398.17	
571	Vwa5a_2	4.47	0	2.11	4	9.45	
572	Fkbp5	4.45	237	16.18	726	71.94	
573	Ablim1	4.42	421	11.64	1246	51.52	
574	Slc25a23	4.4	51	4.64	144	20.43	
575	Ssbp4	4.38	74	10.67	197	46.77	
576	AABR07012583.3	4.36	8	1.41	15	6.14	
577	AABR07038021.1	4.36	4	0.16	4	0.7	
578	Ccdc69	4.36	2	0.35	18	1.51	
579	LOC100362333	4.36	0	0.57	0	2.48	
580	Rn60_12_0174.2	4.36	1	0.24	1	1.04	
581	AABR07000550.1	4.36	1	0.59	3	2.57	
582	AABR07000699.1	4.36	0	0.23	0	0.98	
583	AABR07020860.1	4.36	0	0.07	1	0.32	
584	AABR07022162.1	4.36	1	0.12	3	0.51	
585	AABR07024907.1	4.36	0	0.74	0	3.2	
586	AABR07038019.1	4.36	0	0.51	0	2.23	
587	AABR07043772.1	4.36	1	0.18	3	0.8	
588	AABR07050407.1	4.36	0	0.28	1	1.2	
589	AABR07051376.1	4.36	8	0.37	7	1.61	
590	AABR07055801.1	4.36	1	0.89	4	3.89	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
591	Abat	4.36	9	0.09	14	0.41	
592	Ablim3	4.36	2	0.1	8	0.43	
593	AC108546.1	4.36	0	0.34	0	1.49	
594	AC110981.1	4.36	1	0.3	1	1.29	
595	AC111781.1	4.36	1	0.2	3	0.87	
596	AC118794.1	4.36	6	0.02	6	0.09	
597	AC126148.2	4.36	4	0.98	5	4.26	
598	Adcy5	4.36	59	0.82	90	3.58	
599	Adhfe1	4.36	2	0.13	14	0.55	
600	Armc2	4.36	7	0.07	8	0.29	
601	Arsi	4.36	1	0.14	3	0.63	
602	AY172581.2	4.36	17	62.29	51	271.55	
603	Camk2b	4.36	8	0.06	15	0.26	
604	Cdh18	4.36	14	0.11	17	0.47	
605	Cdh5	4.36	1	0.06	6	0.27	
606	Cdhr2	4.36	4	0.19	11	0.83	
607	Comp	4.36	2	0.09	4	0.39	
608	Creb3l4	4.36	0	0.09	1	0.41	
609	Cyp2r1	4.36	1	0.15	4	0.64	
610	Cyp2t1	4.36	4	0.53	20	2.3	
611	Cyp3a9_1	4.36	1	0.15	3	0.65	
612	Dnajc6	4.36	3	0.05	7	0.21	
613	Drp2	4.36	4	0.04	7	0.16	
614	Ebf3	4.36	1	0.05	4	0.22	
615	ENSRNOG00000050	4.36	1	0.11	3	0.46	
616	Esrrg	4.36	6	0.05	10	0.2	
617	Fam227b	4.36	4	0.14	18	0.6	
618	Far2	4.36	5	0.06	8	0.25	
619	Frmppd1	4.36	3	0.11	6	0.49	
620	Gchfr	4.36	1	0.39	3	1.72	
621	Gda	4.36	1	0.15	18	0.65	
622	Gna14	4.36	6	0.09	6	0.4	
623	Hapln2	4.36	5	0.18	4	0.78	
624	Hhip1	4.36	2	0.1	3	0.46	
625	Hsbp111	4.36	1	0.63	5	2.73	
626	Hvcn1	4.36	7	0.21	11	0.92	
627	Ism2	4.36	3	0.17	5	0.74	
628	Ln timer	4.36	24	0.4	53	1.76	
629	LOC100360619	4.36	1	0.81	1	3.52	
630	LOC100909485	4.36	0	0.32	0	1.39	
631	LOC100909752	4.36	1	0.05	2	0.21	
632	LOC100911545	4.36	0	0.06	0	0.25	
633	LOC681458	4.36	1	0.07	4	0.3	
634	LOC687679	4.36	0	1.96	1	8.53	
635	Lpxn	4.36	4	0.14	4	0.63	
636	Lrrc27	4.36	4	0.2	11	0.87	
637	Lrrc73	4.36	3	0.19	3	0.84	
638	Lrtomt	4.36	3	0.28	3	1.24	
639	Lztfl1	4.36	7	1.04	22	4.54	
640	Mapk12	4.36	1	0.11	4	0.5	
641	Morn1	4.36	51	0.24	70	1.05	
642	Mx1	4.36	1	0.08	8	0.33	
643	Myom3	4.36	9	0.12	7	0.5	
644	Nlrp5	4.36	7	0.08	5	0.37	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
645	Nova2	4.36	8	0.68	19	2.94	
646	Ntn3	4.36	1	0.1	4	0.45	
647	Nxnl2	4.36	40	3.36	73	14.63	
648	P2rx3	4.36	4	0.06	4	0.28	
649	Plcb2	4.36	1	0.07	3	0.31	
650	Ppp1r14a	4.36	2	0.33	6	1.46	
651	Prex1	4.36	2	0.05	8	0.22	
652	RGD1310110	4.36	21	1.94	58	8.47	
653	RGD1560289	4.36	11	0.18	11	0.8	
654	RGD1561444	4.36	25	0.35	37	1.51	
655	RGD1563905	4.36	1	0.43	2	1.86	
656	Rln1	4.36	1	0.31	3	1.37	
657	Rnf208	4.36	2	0.44	7	1.91	
658	Scn2b	4.36	7	1.68	27	7.33	
659	Sdsl	4.36	5	0.36	9	1.58	
660	Sec14l2	4.36	5	0.19	12	0.84	
661	Sema6c	4.36	3	0.15	8	0.66	
662	Sftpd	4.36	1	0.07	4	0.3	
663	Shbg	4.36	1	0.17	3	0.72	
664	Sirt4	4.36	8	0.29	6	1.28	
665	Slc16a6	4.36	6	0.2	10	0.86	
666	Smpd5	4.36	2	0.27	5	1.19	
667	SNORND104_2	4.36	1	3.56	3	15.52	
668	Ssc5d	4.36	4	0.11	11	0.48	
669	Tbxa2r	4.36	6	0.26	6	1.15	
670	Tcf23	4.36	2	0.06	4	0.24	
671	Ticam2	4.36	13	0.38	28	1.64	
672	Tnfrsf4	4.36	3	0.25	4	1.07	
673	Trim45	4.36	5	0.43	15	1.88	
674	Trim69	4.36	1	0.05	3	0.22	
675	Tssk6	4.36	1	0.19	3	0.83	
676	Tsx	4.36	1	0.31	6	1.37	
677	Upp2	4.36	3	0.1	5	0.43	
678	Utf1	4.36	1	0.24	3	1.05	
679	Wif1	4.36	2	0.11	4	0.48	
680	Zfp763	4.36	4	0.57	11	2.49	
681	Zfp94_2	4.36	3	0.33	9	1.45	
682	ACEA_U3_5	4.36	0	1.15	0	5.03	
683	Camkk1	4.36	2	0.13	5	0.57	
684	Dhdh	4.36	28	1.49	54	6.5	
685	Fam229b	4.36	1	0.37	3	1.62	
686	Gpr157	4.36	3	0.11	3	0.46	
687	Hamp	4.36	4	2.08	12	9.05	
688	Haus2_2	4.36	2	0.99	3	4.31	
689	Hpse	4.36	4	0.15	5	0.68	
690	Lag3	4.36	2	0.13	4	0.58	
691	LOC100911851	4.36	0	0.06	0	0.27	
692	Mag	4.36	3	0.1	3	0.42	
693	Mtnr1a	4.36	1	0.14	5	0.61	
694	Rftn2	4.36	6	0.17	9	0.73	
695	RGD1563482	4.36	18	0.48	45	2.11	
696	Greb1	4.34	1495	40.75	4244	176.77	
697	Fam78a	4.33	61	5.41	173	23.46	
698	Rps6ka5	4.29	78	1.96	237	8.4	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
699	Zfp691	4.29	23	3.76	65	16.13	
700	Ifitm1	4.29	19	8.77	58	37.61	
701	RGD1562618	4.28	70	2.02	218	8.64	
702	Amhr2	4.27	66	6.13	175	26.19	
703	Gpam	4.26	219	16.75	668	71.35	
704	Mycn	4.25	15	1.24	40	5.27	
705	Ednrb	4.22	263	23.49	731	99.14	
706	Nudt12	4.21	12	0.64	33	2.7	
707	Trpv4	4.21	11	0.78	35	3.27	
708	Tmem176a	4.21	81	18.23	237	76.77	
709	Zmym3	4.21	257	10.37	754	43.65	
710	Tgfbr3	4.2	141	4.95	403	20.78	
711	Hmgb3_2	4.2	2	1.39	3	5.83	
712	Lrrc16b	4.2	11	0.5	29	2.11	
713	Slit3	4.2	21	0.39	32	1.63	
714	Syng1	4.2	22	1.87	56	7.84	
715	Slfn5	4.19	28	1.1	79	4.61	
716	Hap1	4.19	26	1.17	49	4.92	
717	Pld1	4.17	172	5.63	464	23.48	
718	Nfkb1a	4.17	51	7.16	135	29.84	
719	Hmgb1	4.15	33	2.46	67	10.21	
720	Faxdc2	4.15	74	3.65	98	15.13	
721	Lrfn3	4.15	10	0.74	22	3.07	
722	Gria3	4.14	189	3.58	468	14.85	
723	Alk	4.13	59	0.99	163	4.09	
724	Grk5	4.13	44	2.01	153	8.31	
725	AABR07029907.2	4.12	0	19.17	0	78.91	
726	Dcaf12l1	4.12	12	0.85	34	3.49	
727	LOC501110	4.12	18	0.74	41	3.06	
728	Olfm2	4.12	15	0.3	24	1.22	
729	Ppara	4.12	18	0.7	43	2.89	
730	Slc25a42	4.12	34	2.13	87	8.78	
731	Fam210b	4.11	205	25.35	585	104.25	
732	AABR07026311.1	4.1	3	3.4	10	13.94	
733	Adam8	4.07	14	0.89	48	3.64	
734	Cbln1	4.07	31	3.06	88	12.44	
735	Cyb5d1	4.07	7	1.81	17	7.38	
736	Cyp2s1	4.07	9	0.47	19	1.93	
737	Rnase4	4.07	7	4.49	11	18.29	
738	Rnf157	4.07	8	0.58	21	2.37	
739	Shpk	4.07	11	0.42	19	1.69	
740	Taco1	4.07	7	0.83	18	3.37	
741	Fam69b	4.05	25	2.14	58	8.66	
742	Ankrd54	4.05	13	1.58	39	6.41	
743	Gdf1	4.04	30	0.85	41	3.41	
744	SNORD47_2	4.04	36	115	95	464.19	
745	Man1a1	4.03	118	3.62	308	14.62	
746	LOC287167	4	297	178.31	818	713.17	
747	Cx3cl1	4	15	0.96	34	3.82	
748	Dnah1	4	6	0.07	14	0.29	
749	Man1c1	4	11	0.24	19	0.96	
750	Ndst2	4	0	0.29	0	1.16	
751	Hp	4	13	2.53	38	10.13	
752	Osgin1	4	4	0.45	12	1.81	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
753	Slc7a2	4	7	0.38	18	1.51	
754	Alas1	3.98	445	50.35	1262	200.34	
755	Mycl	3.98	26	1.61	52	6.4	
756	Ndr3	3.98	21	4.55	63	18.09	
757	Pde7b	3.97	484	10.28	1064	40.79	
758	Tsen34_2	3.96	0	2.04	0	8.08	
759	Acacb	3.96	44	0.97	115	3.84	
760	Fshr	3.96	48	1.9	134	7.5	
761	Tmem164	3.95	132	4.11	330	16.22	
762	AABR07064716.2	3.94	0	21.8	0	85.99	
763	Ncam2	3.94	20	0.35	51	1.37	
764	Tmtc4	3.93	136	11.35	366	44.66	
765	Plbd1	3.93	145	17.16	410	67.46	
766	Dpf1	3.93	23	1.8	47	7.09	
767	Apc2	3.92	12	0.25	28	0.99	
768	Tox2	3.89	68	4.56	197	17.73	
769	Crym	3.88	172	31.46	451	122.09	
770	B3gnt7	3.88	101	9.55	263	37.07	
771	LOC100911750	3.87	0	0.38	0	1.46	
772	AABR07012065.1	3.87	10	1.8	24	6.97	
773	Alkbh6_2	3.87	0	1.04	0	4.02	
774	Kcnk12	3.87	85	1.19	124	4.6	
775	Lipg	3.87	12	0.81	38	3.15	
776	Magi2	3.87	28	0.18	70	0.69	
777	Pip5k1b	3.87	19	0.26	34	1	
778	RGD1561333	3.87	0	3.86	1	14.97	
779	Scn3b	3.87	4	0.19	19	0.75	
780	Slc3a1	3.87	16	0.32	45	1.23	
781	Zcchc12	3.87	9	1.07	24	4.16	
782	Zdhc24	3.87	16	0.89	26	3.46	
783	Zfp945	3.87	6	0.69	16	2.66	
784	Nat8l	3.87	3	0.23	8	0.88	
785	P2ry4	3.87	3	0.64	7	2.46	
786	Pi16	3.87	3	0.4	12	1.54	
787	Syn2	3.87	21	0.28	28	1.1	
788	Phyh	3.86	102	12.75	293	49.2	
789	Prdm11	3.83	25	0.45	51	1.72	
790	Nr5a2	3.83	338	12.85	940	49.14	
791	Hadh	3.8	77	10.21	187	38.85	
792	Dhtkd1	3.8	19	0.75	40	2.83	
793	Phactr1	3.79	53	3.59	113	13.64	
794	Xylt1	3.79	96	7.93	268	30.06	
795	Slc25a10	3.79	35	3.64	80	13.79	
796	AABR07069454.1	3.78	5	0.56	14	2.1	
797	Epb4114b	3.78	15	0.17	28	0.65	
798	AABR07065498.1	3.78	18	0.96	26	3.64	
799	Galnt16	3.78	85	0.32	26	1.22	
800	LOC100912534	3.78	1	1.58	2	5.96	
801	Prss35	3.76	586	46.39	1524	174.55	
802	Fam188b	3.76	42	1.5	90	5.66	
803	N4bp3_2	3.76	0	1.14	1	4.3	
804	Akr1c19	3.75	29	2.21	81	8.28	
805	Gnrhr	3.74	455	36.76	1159	137.62	
806	Dhrs1	3.74	74	5.15	126	19.26	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
807	Mafb	3.74	7	0.91	17	3.41	
808	09/02/15	3.74	8	1.73	19	6.47	
809	Dhrs11	3.74	41	2.48	47	9.27	
810	Parp10	3.74	28	1.82	67	6.82	
811	Tmem246	3.73	72	10.14	182	37.84	
812	Aldh2	3.73	211	24.97	528	93.22	
813	Usp27x	3.73	23	3.05	59	11.36	
814	Creg1	3.72	1068	123.81	2710	461.14	
815	Socs3	3.71	9	2.6	23	9.65	
816	Mgat5	3.71	89	5.56	220	20.59	
817	Mccc2	3.7	96	7.63	219	28.2	
818	Ephx1	3.68	171	20.74	420	76.29	
819	AC141169.2	3.67	31	1.07	63	3.91	
820	Nudt16l1	3.67	11	4.14	25	15.19	
821	Nol4l	3.65	54	6.12	101	22.36	
822	1110034G24Rik	3.63	28	1.48	42	5.38	
823	AABR07001064.1	3.63	1	0.18	1	0.65	
824	AABR07059171.1	3.63	0	0.56	1	2.04	
825	Cp	3.63	16	0.66	28	2.39	
826	Gtf2ird2	3.63	78	3.87	168	14.04	
827	LOC691921	3.63	11	1.33	20	4.83	
828	Pcdhb14	3.63	2	0.21	4	0.76	
829	Ropn1l	3.63	2	0.48	5	1.75	
830	Slc44a3	3.63	8	0.27	10	1	
831	Vstm2b	3.63	6	0.49	14	1.77	
832	AABR07031184.1	3.63	0	1.43	1	5.2	
833	AC111257.2	3.63	0	0.18	0	0.67	
834	Ankrd37	3.63	3	0.57	6	2.08	
835	Arntl2	3.63	11	0.25	22	0.91	
836	Bzrap1	3.63	3	0.09	5	0.33	
837	Cln3	3.63	29	3.27	60	11.9	
838	Cpne7	3.63	5	0.21	7	0.75	
839	Fbxl16	3.63	2	0.35	4	1.26	
840	Fhl4	3.63	2	0.26	6	0.94	
841	Gabrg1	3.63	5	0.57	19	2.08	
842	Hcn4	3.63	3	0.09	6	0.33	
843	Hilpda	3.63	4	3.91	9	14.2	
844	Hyal1	3.63	3	0.3	5	1.08	
845	Kbtbd6_1	3.63	0	0.68	0	2.46	
846	LOC100911393_2	3.63	0	1.1	0	4	
847	LOC102554591	3.63	17	0.11	14	0.39	
848	Mapk4	3.63	2	0.11	6	0.39	
849	Notch3	3.63	6	0.2	15	0.74	
850	Padi4	3.63	150	0.22	152	0.8	
851	Pxmp2	3.63	10	0.55	20	1.98	
852	Rac3	3.63	5	1.73	11	6.29	
853	RGD1305587	3.63	4	0.81	9	2.93	
854	Rpl8	3.63	0	4.51	0	16.37	
855	Scnn1a	3.63	4	0.15	6	0.54	
856	Shc2	3.63	4	0.13	7	0.46	
857	SNORD58_1	3.63	2	7.55	5	27.43	
858	Vpreb3	3.63	5	1.55	13	5.64	
859	Zc3h12b	3.63	4	0.31	12	1.14	
860	Zfp74_2	3.63	0	0.24	0	0.88	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
861	AABR07031674.3	3.63	0	1.63	0	5.92	
862	Cd40	3.63	2	0.36	5	1.31	
863	Efnb3	3.63	2	0.16	5	0.58	
864	L2hgdh	3.63	8	0.31	12	1.11	
865	Poli	3.63	5	0.39	11	1.43	
866	Reep6	3.63	8	0.7	17	2.56	
867	Tmem53	3.63	29	0.7	46	2.53	
868	Zfp324	3.63	1	0.29	3	1.04	
869	Gusb	3.63	125	9.72	303	35.26	
870	Sema7a	3.6	171	14.16	395	50.95	
871	Slc44a2	3.59	103	6.92	255	24.86	
872	Mrc2	3.59	176	6.71	418	24.13	
873	Vkorc1	3.59	36	3.55	86	12.75	
874	Rn60_1_0959.1	3.57	1	0.52	8	1.87	
875	Smpdl3a	3.57	13	1.54	28	5.49	
876	Lipe	3.57	33	0.74	51	2.64	
877	Itm2c	3.56	613	78.99	1508	281.4	
878	Dpyd	3.56	68	1.14	126	4.07	
879	Rbbp9	3.55	82	9.11	188	32.35	
880	Pgap2	3.53	27	1.31	57	4.61	
881	Psd	3.53	8	0.44	20	1.54	
882	Zdhhc18	3.53	38	3.52	55	12.43	
883	Zfp521	3.53	192	3.27	390	11.55	
884	Slc26a2	3.52	48	3.29	109	11.58	
885	Cyp27a1	3.51	47	3.94	114	13.84	
886	Adcy9	3.51	152	5.3	334	18.59	
887	Mfap3l	3.5	27	2.85	70	9.97	
888	Efnb1	3.5	95	7.1	225	24.86	
889	Ptpv	3.49	16	0.65	40	2.27	
890	AABR07069473.1	3.49	11	0.41	14	1.44	
891	Map4k1	3.49	8	0.44	15	1.55	
892	Pex11g	3.49	37	1.08	46	3.77	
893	Prodh	3.49	8	0.53	18	1.86	
894	RGD1304810	3.49	23	0.5	35	1.74	
895	RGD1306001	3.49	10	1.37	16	4.77	
896	Slc25a28	3.49	104	10.73	254	37.43	
897	Tubd1	3.49	11	0.86	15	2.99	
898	RGD1565368	3.48	12	46.05	36	160.1	
899	Mfsd12	3.47	42	4.9	94	17.01	
900	Lhfpl2	3.46	85	4	186	13.83	
901	Angpt2	3.46	10	2.14	29	7.41	
902	Gfpt2	3.46	39	2.41	84	8.34	
903	AABR07009106.2	3.45	8	0.98	17	3.37	
904	Gstz1	3.45	35	3.18	68	10.99	
905	Cntnap1	3.45	9	0.37	23	1.28	
906	Cep70	3.45	20	0.68	35	2.36	
907	Kcnk1	3.45	16	0.78	21	2.7	
908	Zadh2	3.45	90	4.38	188	15.1	
909	Gstm5	3.43	11	2.86	26	9.83	
910	Igsf11	3.43	448	19.15	979	65.65	
911	AABR07062513.1	3.43	24	0.57	42	1.94	
912	Snx21	3.43	39	1.88	67	6.45	
913	Fbln1	3.42	39	2.4	77	8.21	
914	Ddx26b	3.42	64	1.59	104	5.45	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
915	AC135696.1	3.41	8	2.24	18	7.66	
916	5_8S_rRNA_14	3.41	0	395.73	0	1351.25	
917	Map3k5	3.4	212	6.38	471	21.7	
918	Madd	3.4	74	2.86	179	9.72	
919	Abcc4	3.39	66	2.5	141	8.48	
920	Slc24a4	3.39	31	1.2	57	4.06	
921	Arsg	3.39	12	0.22	32	0.73	
922	Bbs5	3.39	10	1.09	37	3.71	
923	Ccdc170	3.39	5	0.7	13	2.39	
924	Gprc5b	3.39	11	0.26	20	0.88	
925	Igsf1	3.39	3	0.17	9	0.58	
926	Mov10	3.39	173	8.63	359	29.27	
927	Nfe2	3.39	6	0.45	8	1.53	
928	Paqr7	3.39	56	5.02	120	17.03	
929	Scn4b	3.39	24	1.4	60	4.75	
930	Tmem19	3.39	5	1.18	19	4.01	
931	7SK_368	3.39	0	2.21	3	7.5	
932	AABR07072539.1	3.39	2	0.84	3	2.86	
933	AC107580.4	3.39	0	0.49	0	1.67	
934	Asap3	3.39	7	0.28	20	0.93	
935	Celf5	3.39	5	0.17	10	0.58	
936	Hdx	3.39	7	0.33	15	1.12	
937	LOC100362724	3.39	0	0.72	0	2.43	
938	LOC687399	3.39	4	0.5	10	1.7	
939	Nlgn3	3.39	10	0.56	24	1.91	
940	Nsun3	3.39	13	0.81	16	2.75	
941	Rapgef5	3.39	12	0.14	17	0.47	
942	Sez6l	3.39	7	0.16	15	0.53	
943	Sfrp1	3.39	3	0.19	7	0.65	
944	Slc22a17	3.39	84	6.72	177	22.77	
945	snosnR60_Z15_3	3.39	1	9.23	0	31.29	
946	5_8S_rRNA_30	3.39	0	402.25	0	1363.08	
947	Dtx3l	3.38	91	4.15	199	14.06	
948	Tmem206	3.38	171	26.1	400	88.31	
949	Bambi	3.38	172	27.53	408	93.11	
950	Pitpnm3	3.37	51	1.16	101	3.9	
951	Agbl5	3.37	101	2.13	115	7.17	
952	LOC690000	3.37	28	2.58	68	8.7	
953	Itn2b	3.36	2067	276	4686	927.35	
954	Pyroxd2	3.36	54	3.67	122	12.32	
955	Neto2	3.35	41	3.63	79	12.16	
956	Zfp385b	3.34	168	3.7	444	12.36	
957	Arrdc4	3.33	23	0.99	49	3.29	
958	Eci1	3.33	143	30.08	327	100.2	
959	LOC100911867	3.33	43	2.09	107	6.94	
960	MGC112715	3.32	2	0.93	7	3.1	
961	Msr2	3.32	19	1.52	32	5.05	
962	Pkhd11l	3.32	14	0.13	27	0.44	
963	Rbl2	3.31	100	3.85	213	12.74	
964	Glb1l	3.31	28	1.94	52	6.44	
965	Slc16a2	3.31	66	3.91	137	12.92	
966	Hist1h4b_6	3.3	10	2.11	22	6.98	
967	Lrrc4c	3.3	20	0.97	45	3.22	
968	Tef	3.3	94	4.61	209	15.22	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
969	Abca2	3.3	288	8.67	647	28.62	
970	Ppt2	3.3	25	7.38	99	24.34	
971	Ebf4	3.29	44	2.81	82	9.25	
972	Hmgcl	3.29	26	3.19	55	10.49	
973	Oplah	3.29	27	1.34	65	4.39	
974	Rps4x	3.27	0	23.33	0	76.36	
975	Csmd2	3.27	23	0.1	28	0.31	
976	AABR07028795.2	3.27	8	0.56	13	1.84	
977	Amigo2	3.27	8	0.64	18	2.11	
978	Cd99l2_1	3.27	2	0.47	10	1.54	
979	Gfra3	3.27	5	0.45	9	1.47	
980	Lynx1	3.27	5	0.26	12	0.86	
981	Mtcp1_2	3.27	4	3.57	9	11.68	
982	Nhej1	3.27	18	0.71	19	2.31	
983	Nr3c2	3.27	26	0.76	49	2.48	
984	RGD1565367	3.27	13	0.5	21	1.64	
985	SNORD26	3.27	4	13.29	9	43.45	
986	SNORD66	3.27	0	26.58	0	86.9	
987	Sparcl1	3.27	5	0.36	16	1.19	
988	Trim34	3.27	26	1.55	44	5.08	
989	Zfp961	3.27	4	0.79	10	2.57	
990	Dennd3	3.27	12	0.35	24	1.14	
991	Zfp667	3.27	5	0.3	14	0.96	
992	Rn5-8s	3.27	0	385.96	0	1261.32	
993	Gamt	3.26	68	11.3	151	36.88	
994	Abcc3	3.26	130	3.41	227	11.13	
995	Stk17b	3.26	50	3.13	104	10.2	
996	Slc36a1	3.25	49	2.74	93	8.91	
997	Abtb1	3.25	38	3.96	79	12.86	
998	LOC102556347	3.24	5	5.85	21	18.94	
999	Slc46a1	3.24	26	2.41	61	7.78	
1000	Ldhb	3.23	190	32.35	424	104.57	
1001	Nkd1	3.22	57	4.48	157	14.45	
1002	GImp	3.22	52	28.88	132	92.94	
1003	Zfp184	3.22	119	1.7	176	5.45	
1004	Gcdh	3.21	34	4.39	88	14.1	
1005	Fut8	3.21	152	11.28	339	36.25	
1006	Fbxo31	3.21	50	3.57	88	11.43	
1007	Rnf122	3.21	49	5.32	89	17.06	
1008	Dnajc28	3.2	5	0.88	11	2.82	
1009	Dok2	3.2	5	0.44	14	1.42	
1010	Gsap	3.2	11	0.33	18	1.06	
1011	Ogdhl	3.2	69	4.47	150	14.29	
1012	Prrx1	3.2	20	1.45	21	4.62	
1013	Shisa7	3.2	5	0.2	14	0.65	
1014	Bphl	3.2	24	2.11	45	6.74	
1015	Calr3	3.2	6	0.89	12	2.85	
1016	Gpr162	3.2	10	0.43	18	1.39	
1017	Ift27	3.2	14	2.44	27	7.8	
1018	Phf7	3.2	20	1.5	33	4.81	
1019	Supt7l	3.2	4	0.65	9	2.08	
1020	Slc41a3	3.19	113	6.87	210	21.92	
1021	Nphp4	3.18	43	1.34	88	4.24	
1022	Naglu	3.17	67	6.18	143	19.59	

Supplemental Table 2
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	A	B	C	D	E	F	G
1023	LOC100912282	3.16	0	6.46	1	20.44	
1024	Fam84b	3.15	41	10.95	89	34.54	
1025	Tmem150a	3.15	74	12.2	161	38.45	
1026	Tmem176b	3.15	251	34.35	517	108.21	
1027	Tm7sf3	3.15	35	2.92	65	9.2	
1028	5_8S_rRNA_13	3.15	0	400.62	0	1261.32	
1029	AABR07072266.1	3.15	0	2.4	0	7.54	
1030	Bcl7a	3.15	12	2.36	42	7.44	
1031	Ech1	3.15	85	16.55	174	52.12	
1032	Galm	3.15	57	3.88	92	12.2	
1033	Styx11	3.15	36	0.91	47	2.87	
1034	Enpp5	3.15	86	9.18	186	28.86	
1035	Rnf167	3.14	67	8.18	143	25.71	
1036	Satb1	3.14	94	4.01	193	12.61	
1037	Wnt11	3.14	83	6.08	176	19.07	
1038	Amigo1	3.13	26	1.4	56	4.37	
1039	Abhd4	3.13	293	30.26	631	94.61	
1040	Cxxc5_1	3.13	125	19.89	287	62.16	
1041	Bzw2	3.13	440	42.32	972	132.25	
1042	Ccdc134	3.12	28	3.23	55	10.08	
1043	Tmem8a	3.12	24	1.11	48	3.48	
1044	Extl2	3.12	47	3.69	77	11.5	
1045	Gaa	3.11	235	15.63	480	48.68	
1046	Appl2	3.11	96	5.3	195	16.49	
1047	Ddb2	3.11	22	0.95	35	2.95	
1048	Lins	3.11	30	1.75	48	5.45	
1049	LOC102552796	3.11	7	0.72	15	2.25	
1050	Tlhc1	3.11	24	1.28	38	4	
1051	Tor3a	3.11	6	0.96	13	3	
1052	Pomgnt2	3.1	30	3.52	64	10.91	
1053	Vwa1	3.1	17	1.31	35	4.07	
1054	Rfxank	3.1	37	4.21	42	13.05	
1055	Gstm1	3.09	48	10.49	107	32.44	
1056	Sema4a	3.09	13	0.59	22	1.82	
1057	Slc8b1	3.09	11	0.75	29	2.31	
1058	LOC100910577	3.09	6	1.15	12	3.54	
1059	Rnf150	3.09	35	1.41	72	4.34	
1060	Snph	3.09	27	0.42	29	1.31	
1061	Xkr5	3.09	20	0.91	27	2.82	
1062	Zbtb3	3.09	8	0.98	17	3.04	
1063	Zfp677	3.09	9	1.05	21	3.23	
1064	RGD1565059	3.09	9	1.29	22	3.98	
1065	Timm17b	3.08	0	12	0	36.97	
1066	Pde1a	3.08	43	4.37	109	13.45	
1067	Tmem8b	3.08	40	2.99	58	9.19	
1068	Bbs9	3.07	45	2.5	81	7.68	
1069	Foxred2	3.07	27	1.4	57	4.3	
1070	Mpst	3.07	57	11.06	120	33.92	
1071	Ston2	3.07	44	2.11	76	6.48	
1072	AABR07009638.1	3.07	0	3.72	3	11.41	
1073	Rpl39_2	3.07	0	6.92	0	21.23	
1074	SNORD75_2	3.07	18	72.34	37	221.91	
1075	Tspyl4	3.07	9	1.13	19	3.46	
1076	Crispld2	3.07	351	19.56	738	59.98	

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	A	B	C	D	E	F	G
1077	LOC100360449	3.07	0	27.54	0	84.42	
1078	Giot1	3.06	19	2.41	34	7.38	
1079	Tet1	3.06	29	0.78	65	2.37	
1080	Taf9	3.05	1	1.39	1	4.25	
1081	Fam217b	3.05	10	0.54	22	1.65	
1082	Naprt1	3.05	11	1.24	25	3.79	
1083	Cep44	3.04	62	6.7	147	20.4	
1084	Pnp	3.04	315	64.65	637	196.48	
1085	Oxsm	3.04	13	0.88	28	2.68	
1086	Tmem243	3.04	31	2.5	66	7.6	
1087	Mettl15	3.04	31	0.52	52	1.58	
1088	Pla2g6	3.04	63	3.14	127	9.54	
1089	Hecw1	3.03	87	1	135	3.03	
1090	Pcdh10	3.03	91	6.21	177	18.82	
1091	Irak3	3.03	19	0.94	41	2.86	
1092	LOC680039	3.03	6	0.45	18	1.35	
1093	Pts	3.03	17	2.48	34	7.51	
1094	C1s	3.02	262	25.44	567	76.81	
1095	Mx2	3.02	12	1.11	26	3.34	
1096	Rmnd5b_1	3.02	0	5.24	0	15.82	
1097	Endod1	3.02	53	9.22	109	27.79	
1098	Stat5a	3.01	29	1.93	54	5.81	
1099	Aste1	3.01	31	0.97	48	2.92	
1100	Pde4b	3.01	24	1.06	37	3.19	
1101	Slc44a1	3.01	285	9.87	600	29.7	
1102	Slc2a13	3	33	0.6	50	1.8	
1103	Nprl3	3	104	5.64	204	16.93	
1104	Xdh	3	54	2.46	108	7.38	
1105	Mark1	3	620	23.94	1319	71.73	
1106	LOC102553763	2.99	53	6.05	104	18.09	
1107	2310067B10Rik	2.99	118	5.85	220	17.5	
1108	Dyrk1b	2.99	60	5.91	141	17.67	
1109	Nrep	2.99	27	10.31	53	30.8	
1110	Galnt7	2.98	202	7.97	414	23.8	
1111	Gde1	2.98	88	13.67	176	40.78	
1112	Nagpa	2.98	23	2.22	41	6.61	
1113	Reep2	2.98	20	2.49	41	7.43	
1114	Mfsd3	2.98	8	2.17	14	6.48	
1115	Fam89b	2.98	121	24.08	239	71.81	
1116	Epha7	2.98	34	1.75	70	5.19	
1117	Pdxk	2.97	21	4.32	45	12.84	
1118	Zdhhc1	2.97	14	3.52	37	10.47	
1119	Znrf2	2.97	158	5.05	297	14.99	
1120	Pcgf6	2.97	48	2.86	75	8.49	
1121	Ift46	2.96	55	3.78	79	11.21	
1122	Slc41a1	2.96	152	7.45	295	22.04	
1123	Mif4gd	2.95	39	5.99	76	17.7	
1124	Tspo	2.95	68	18.71	135	55.24	
1125	AABR07002624.1	2.95	0	24.95	0	73.57	
1126	Nudt10	2.95	46	7.64	102	22.52	
1127	Manba	2.94	70	2.64	89	7.77	
1128	Rgma	2.94	52	3.22	107	9.47	
1129	Qpctl	2.94	59	5.18	112	15.21	
1130	Fntb	2.94	78	4.82	132	14.14	

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	A	B	C	D	E	F	G
1131	Tmem50b	2.92	110	8.8	193	25.75	
1132	Phka1	2.92	313	10.25	594	29.97	
1133	Gsta4	2.92	115	25.41	216	74.21	
1134	Ivns1abp	2.91	1597	88.32	3281	256.87	
1135	Cd274	2.91	5	0.13	3	0.37	
1136	5_8S_rRNA_2	2.91	0	405.5	0	1178.5	
1137	AABR07000747.1	2.91	1	0.79	0	2.3	
1138	AABR07001519.1	2.91	25	0.25	22	0.71	
1139	AABR07003001.2	2.91	1815	0.39	804	1.12	
1140	AABR07004112.1	2.91	0	0.1	0	0.29	
1141	AABR07004799.1	2.91	0	0.38	1	1.11	
1142	AABR07005533.1	2.91	0	0.19	1	0.55	
1143	AABR07006866.1	2.91	2	0.6	4	1.74	
1144	AABR07007130.1	2.91	4	0.45	7	1.31	
1145	AABR07028036.1	2.91	2	0.22	3	0.64	
1146	AABR07054490.1	2.91	4	0.18	19	0.53	
1147	AABR07072711.1	2.91	1	0.14	2	0.41	
1148	AC110351.1	2.91	0	0.62	0	1.81	
1149	AC129370.1	2.91	4	0.5	13	1.46	
1150	AC133265.1	2.91	5	1.87	5	5.42	
1151	Acad11	2.91	82	3.59	136	10.43	
1152	ACEA_U3_6	2.91	0	1.16	0	3.37	
1153	Ampd1	2.91	6	0.1	4	0.3	
1154	Arrb1	2.91	55	0.73	68	2.13	
1155	Asic4	2.91	11	0.28	9	0.83	
1156	Atp6ap1l	2.91	6	0.44	5	1.28	
1157	B3galt4	2.91	3	0.47	6	1.38	
1158	Begain	2.91	2	0.09	2	0.26	
1159	Brinp1	2.91	5	0.08	8	0.22	
1160	Cacna1a	2.91	8	0.03	9	0.08	
1161	Capn6	2.91	1	0.07	2	0.21	
1162	Cbx7	2.91	8	0.47	19	1.36	
1163	Ccdc158	2.91	5	0.07	6	0.2	
1164	Cenpa	2.91	3	0.3	5	0.86	
1165	Cfap46_2	2.91	2	0.15	4	0.44	
1166	Cldn23	2.91	1	0.14	2	0.42	
1167	Clec11a	2.91	2	0.16	4	0.48	
1168	Clmn	2.91	7	0.05	10	0.15	
1169	Cntln	2.91	30	0.99	44	2.89	
1170	Cntn2	2.91	3	0.05	4	0.14	
1171	Cntnap5b	2.91	286	0.06	349	0.18	
1172	Colec10	2.91	6	0.05	2	0.16	
1173	Coro2b	2.91	19	0.75	17	2.17	
1174	Crisp3	2.91	2	0.17	4	0.51	
1175	Ctrl	2.91	1	0.31	2	0.91	
1176	Dcun1d2	2.91	0	0.09	0	0.27	
1177	Dennd2d	2.91	3	0.13	2	0.38	
1178	Fhad1	2.91	5	0.05	4	0.13	
1179	Ftl1l1	2.91	0	1.35	1	3.94	
1180	Gdnf	2.91	10	0.71	9	2.07	
1181	Gramd4	2.91	14	0.49	21	1.41	
1182	Hcn3	2.91	3	0.16	7	0.45	
1183	Hecw2	2.91	9	0.09	15	0.27	
1184	Hist1h3f	2.91	0	0.61	0	1.76	

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	A	B	C	D	E	F	G
1185	Hoxd8	2.91	3	0.6	4	1.74	
1186	Il15	2.91	20	1.02	12	2.96	
1187	lqch	2.91	37	0.06	31	0.18	
1188	Kcne3	2.91	24	0.43	11	1.25	
1189	Kcnk7	2.91	1	0.16	1	0.46	
1190	Lias	2.91	24	2.83	47	8.22	
1191	LOC100360411	2.91	1	0.16	3	0.45	
1192	LOC100361811	2.91	1	1.8	4	5.23	
1193	LOC100365450	2.91	1	0.32	2	0.92	
1194	LOC100911109	2.91	0	0.17	0	0.5	
1195	LOC100911225	2.91	0	0.21	0	0.61	
1196	LOC103692471	2.91	0	0.17	0	0.49	
1197	LOC103693683	2.91	8	0.15	5	0.42	
1198	LOC687780	2.91	0	0.62	0	1.8	
1199	LOC690806	2.91	7	1.87	9	5.42	
1200	LOC691909	2.91	1	0.17	1	0.49	
1201	Lrp1b_2	2.91	2	0.22	4	0.64	
1202	Mdga1	2.91	6	0.07	4	0.21	
1203	Mgarp	2.91	4	0.62	7	1.8	
1204	Mia	2.91	1	0.44	2	1.27	
1205	Mmrn2	2.91	6	0.06	4	0.18	
1206	Mok	2.91	20	0.46	26	1.33	
1207	Mrgpre	2.91	1	0.27	2	0.78	
1208	Mroh8	2.91	7	0.07	8	0.22	
1209	Nanos3	2.91	2	0.34	8	0.98	
1210	Nat2	2.91	3	0.36	8	1.05	
1211	Negr1	2.91	22	0.14	28	0.42	
1212	Nmi	2.91	20	4.6	35	13.37	
1213	Notum	2.91	2	0.24	4	0.71	
1214	Npy1r	2.91	1	0.09	2	0.25	
1215	Nqo2	2.91	4	0.36	4	1.06	
1216	Nyap1	2.91	0	0.22	0	0.64	
1217	Olr1505_1	2.91	1	0.54	3	1.56	
1218	P2ry2	2.91	1	0.14	2	0.42	
1219	Plekhg4	2.91	2	0.06	2	0.19	
1220	Pnma1	2.91	1	0.14	2	0.41	
1221	Pot1b	2.91	17	1.43	41	4.15	
1222	Prob1	2.91	1	0.08	2	0.24	
1223	Ptpn7	2.91	2	0.06	3	0.16	
1224	Rasa4	2.91	17	0.89	30	2.58	
1225	Rfx2	2.91	7	0.15	8	0.44	
1226	Rfx4	2.91	24	0.12	18	0.34	
1227	RGD1306227	2.91	20	1.52	38	4.41	
1228	RGD1310049	2.91	11	0.42	20	1.22	
1229	RGD1359634	2.91	2	0.77	4	2.22	
1230	RGD1560010	2.91	7	0.9	14	2.62	
1231	RGD1564719	2.91	7	0.82	14	2.39	
1232	Rimbp3	2.91	2	0.09	4	0.27	
1233	Rltpr	2.91	11	0.21	14	0.62	
1234	Rn60_12_0174.1	2.91	1	0.25	1	0.72	
1235	Rn60_19_0291.1	2.91	2	0.31	3	0.89	
1236	Rn60_19_0706.2	2.91	3	1.77	4	5.16	
1237	Rn60_4_1360.2	2.91	0	0.18	0	0.52	
1238	Rpl10l	2.91	3	1.16	6	3.38	

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	A	B	C	D	E	F	G
1239	Sema4f	2.91	2	0.13	5	0.36	
1240	Sepw1	2.91	0	1.87	0	5.42	
1241	Slc27a3	2.91	36	3.73	77	10.83	
1242	Slc30a2	2.91	2	0.08	2	0.23	
1243	Slc43a3	2.91	4	0.18	4	0.53	
1244	Slitrk3	2.91	1	0.08	2	0.22	
1245	SNORA17_124	2.91	0	1.89	0	5.49	
1246	SNORA44_21	2.91	0	1.93	0	5.61	
1247	SNORA44_25	2.91	0	1.93	0	5.61	
1248	SNORD12_1	2.91	0	2.71	0	7.87	
1249	SNORD36_3	2.91	0	10.53	0	30.6	
1250	SNORD49_1	2.91	1	3.51	2	10.2	
1251	SNORD53_SNORD9	2.91	0	2.8	0	8.14	
1252	Spdya	2.91	3	0.11	8	0.32	
1253	Synpo2l	2.91	3	0.08	3	0.25	
1254	Tle6	2.91	2	0.25	4	0.72	
1255	Trpm8	2.91	4	0.18	9	0.52	
1256	Tspan7	2.91	56	7.75	108	22.54	
1257	U3_6	2.91	0	1.16	0	3.37	
1258	Unc93b1	2.91	16	2.89	31	8.41	
1259	Usp2	2.91	9	0.29	7	0.85	
1260	Wdr24	2.91	66	5.37	118	15.6	
1261	Wdr90	2.91	64	2.33	125	6.76	
1262	Wscd1	2.91	6	0.17	4	0.51	
1263	Xkr6	2.91	80	0.27	55	0.78	
1264	Xpnpep2	2.91	2	0.07	3	0.21	
1265	Zdhhc23	2.91	6	0.24	7	0.7	
1266	Zfp37	2.91	0	0.14	1	0.41	
1267	Zp1	2.91	1	0.13	2	0.37	
1268	1500009L16Rik	2.91	2	0.49	5	1.42	
1269	1810024B03Rik	2.91	1	0.12	2	0.35	
1270	AABR07001929.1	2.91	9	0.3	9	0.87	
1271	AABR07019306.1	2.91	1	0.19	1	0.56	
1272	AABR07022022.1	2.91	1	0.26	1	0.75	
1273	AABR07030890.1	2.91	1	0.22	2	0.64	
1274	AABR07030914.1	2.91	6	0.41	4	1.19	
1275	AABR07042915.1	2.91	0	0.6	0	1.74	
1276	AABR07043288.1	2.91	1	1	1	2.91	
1277	AABR07043725.1	2.91	0	0.2	0	0.58	
1278	AABR07049064.1	2.91	6	0.53	7	1.53	
1279	AABR07051190.1	2.91	1	0.19	2	0.54	
1280	AABR07053509.1	2.91	0	0.76	0	2.19	
1281	AABR07058831.1	2.91	1	0.48	1	1.4	
1282	AABR07062799.2	2.91	7	1.99	13	5.79	
1283	Abcb9	2.91	5	0.05	5	0.13	
1284	Abcc6	2.91	4	0.04	6	0.13	
1285	AC099449.1	2.91	14	0.49	27	1.44	
1286	AC130741.1	2.91	1	0.41	2	1.2	
1287	AC130866.2	2.91	0	0.19	0	0.56	
1288	AC133739.1	2.91	2	0.05	2	0.15	
1289	AC135443.1	2.91	0	3.11	0	9.05	
1290	Acp5	2.91	6	0.97	16	2.8	
1291	Actl7a	2.91	1	0.16	2	0.46	
1292	Ankmy1	2.91	3	0.08	8	0.24	

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	A	B	C	D	E	F	G
1293	Ankrd23	2.91	1	0.19	2	0.55	
1294	Apeg3	2.91	0	0.27	0	0.78	
1295	Bbs2	2.91	48	3.29	94	9.57	
1296	Bcl2l11	2.91	42	1.16	59	3.38	
1297	Bend5	2.91	18	1.36	32	3.95	
1298	Cdk20	2.91	31	2.59	57	7.53	
1299	Clic3	2.91	1	0.08	2	0.23	
1300	Col6a2	2.91	4	0.27	9	0.78	
1301	Col8a2	2.91	3	0.06	2	0.17	
1302	Cracr2a	2.91	2	0.27	2	0.78	
1303	Csad	2.91	44	4.49	85	13.05	
1304	Cspg5	2.91	23	2.32	36	6.75	
1305	Cthrc1	2.91	1	0.2	2	0.6	
1306	Dnah17	2.91	17	0.02	8	0.05	
1307	Dnah2	2.91	10	0.02	5	0.05	
1308	Dqx1	2.91	5	0.29	6	0.83	
1309	Ece2	2.91	4	0.13	7	0.39	
1310	Ect2l	2.91	14	0.1	27	0.28	
1311	Egfl8	2.91	1	0.18	1	0.53	
1312	Entpd7_1	2.91	0	0.24	0	0.71	
1313	Epm2a	2.91	6	0.22	8	0.63	
1314	Fam212b	2.91	3	0.22	7	0.64	
1315	Fat2	2.91	2	0.02	3	0.06	
1316	Fbxo27	2.91	6	0.35	9	1.03	
1317	Fermt3	2.91	3	0.61	5	1.77	
1318	Gm1045	2.91	3	0.65	2	1.9	
1319	Gpr19	2.91	11	0.98	22	2.86	
1320	Grhl3	2.91	2	0.1	5	0.29	
1321	Hist1h2bb	2.91	1	1.31	3	3.8	
1322	Hist1h4b_2	2.91	0	0.8	0	2.32	
1323	Hoxc8	2.91	1	0.12	2	0.34	
1324	Hoxd3	2.91	1	0.1	2	0.29	
1325	Hsd3b1	2.91	0	0.15	1	0.42	
1326	Ier5l	2.91	3	0.48	6	1.38	
1327	Igf2	2.91	7	0.27	13	0.77	
1328	Igflr1	2.91	1	0.2	2	0.59	
1329	Ikbke	2.91	8	0.08	8	0.22	
1330	Kihl41	2.91	1	0.11	3	0.32	
1331	Ldhd	2.91	108	1.39	145	4.05	
1332	Lgals5	2.91	1	0.55	2	1.6	
1333	Lhx8	2.91	1	0.14	2	0.41	
1334	LOC100361060	2.91	0	1.55	0	4.51	
1335	LOC100362384	2.91	1	2.24	2	6.52	
1336	LOC100362965	2.91	0	1.15	0	3.35	
1337	LOC100910965	2.91	0	0.46	0	1.35	
1338	LOC100911286	2.91	0	0.53	0	1.54	
1339	LOC100911337	2.91	0	0.66	0	1.92	
1340	LOC100911926	2.91	1	0.1	2	0.29	
1341	LOC100912436	2.91	0	0.66	0	1.91	
1342	LOC680161	2.91	0	0.62	0	1.81	
1343	LOC685963	2.91	0	1.17	0	3.4	
1344	Lonrf3	2.91	9	0.16	7	0.47	
1345	Morn2	2.91	3	0.76	5	2.2	
1346	Naaladl1	2.91	7	0.2	6	0.57	

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	A	B	C	D	E	F	G
1347	Nefh	2.91	2	0.13	4	0.38	
1348	Nlrc5	2.91	6	0.13	7	0.38	
1349	Nmb	2.91	2	0.17	2	0.51	
1350	Nmu	2.91	2	0.35	3	1.02	
1351	Nptxr	2.91	8	0.31	14	0.9	
1352	Oas1d	2.91	0	0.23	0	0.66	
1353	Ovol1	2.91	1	0.05	2	0.13	
1354	Pcp4l1	2.91	24	0.97	20	2.83	
1355	Pdgfrl	2.91	4	0.17	7	0.49	
1356	Phf11c	2.91	1	0.25	3	0.72	
1357	Piwil1	2.91	1	0.06	2	0.18	
1358	Pkd2l2	2.91	9	0.2	13	0.59	
1359	Prom1	2.91	4	0.05	7	0.15	
1360	Pygm	2.91	6	0.09	7	0.25	
1361	Rab19	2.91	2	0.12	3	0.34	
1362	Rag1	2.91	1	0.04	2	0.11	
1363	Ret	2.91	3	0.04	3	0.13	
1364	RGD1311447	2.91	11	0.27	5	0.77	
1365	RGD1563220	2.91	0	0.31	0	0.9	
1366	RGD1624210	2.91	2	0.16	6	0.47	
1367	Rgs22	2.91	13	0.05	7	0.14	
1368	Rhbdl1	2.91	3	0.33	4	0.96	
1369	Rn60_14_0449.2	2.91	0	0.83	0	2.41	
1370	Rn60_20_0292.1	2.91	0	0.61	0	1.77	
1371	Rn60_X_0634.2	2.91	2	0.38	3	1.1	
1372	Rnf39	2.91	1	0.11	2	0.31	
1373	Rps17l	2.91	0	1.83	2	5.32	
1374	Scgb1c1	2.91	1	0.54	2	1.58	
1375	Sh3gl2	2.91	5	0.17	6	0.49	
1376	Slc1a7	2.91	4	0.09	9	0.26	
1377	Slc25a34	2.91	4	0.19	5	0.55	
1378	Slc27a2	2.91	1	0.08	7	0.24	
1379	Slc43a2	2.91	25	0.78	37	2.26	
1380	Slitrk5	2.91	1	0.05	2	0.15	
1381	SNORD12_2	2.91	0	8.4	0	24.41	
1382	SNORD36_4	2.91	0	14.44	0	41.98	
1383	Spag8	2.91	3	0.42	8	1.21	
1384	St6galnac2	2.91	9	0.12	3	0.36	
1385	Syng3	2.91	2	0.2	4	0.59	
1386	Tesb	2.91	3	0.08	2	0.24	
1387	Tfdp2	2.91	34	1.27	65	3.69	
1388	Tirap	2.91	8	1.99	18	5.77	
1389	Tmc8	2.91	2	0.09	3	0.27	
1390	Tmem178a	2.91	7	0.75	14	2.17	
1391	Tmie	2.91	2	0.1	2	0.28	
1392	Vwa3a	2.91	14	0.12	13	0.35	
1393	Wipf3	2.91	57	1.89	89	5.51	
1394	Zfp473	2.91	3	0.16	4	0.45	
1395	Zfp951_2	2.91	0	0.2	0	0.59	
1396	Commd5	2.91	0	0.74	0	2.15	
1397	Tulp3	2.9	193	28.75	363	83.3	
1398	Pdcd4	2.88	150	12.98	275	37.43	
1399	Agtrap	2.88	58	4.25	116	12.24	
1400	Naga	2.88	110	11.89	207	34.21	

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	A	B	C	D	E	F	G
1401	Dhcr7	2.87	397	33.26	782	95.49	
1402	Abcb1a	2.87	2122	25.07	3957	71.97	
1403	Peg3	2.87	103	3.31	192	9.49	
1404	Sept9	2.87	240	16.11	582	46.19	
1405	Rtn2	2.86	79	8.88	165	25.45	
1406	Metazoa_SRP_26	2.86	0	25	0	71.45	
1407	Ugt1a8	2.86	43	0.8	77	2.29	
1408	Pink1	2.86	66	5.89	116	16.83	
1409	Gm2a	2.85	311	37.42	613	106.81	
1410	Gas6	2.85	1251	85	2371	242.47	
1411	Pdk2	2.85	26	4.89	49	13.9	
1412	Cog5	2.84	122	7.69	224	21.87	
1413	Ldoc1l	2.84	23	7.83	45	22.26	
1414	Hsd17b11	2.84	79	10.32	154	29.3	
1415	Pcdhac1	2.84	152	1.14	280	3.24	
1416	Cacna1h	2.83	145	3.77	249	10.67	
1417	Arhgap44	2.83	46	1.83	72	5.18	
1418	Frmf5	2.83	139	9.27	290	26.21	
1419	LOC100911238	2.83	0	15.65	1	44.26	
1420	Pik3ip1	2.82	98	7.7	187	21.74	
1421	Dennd2c	2.82	28	0.79	47	2.24	
1422	Zfp12	2.82	17	1.93	33	5.43	
1423	Blvrb	2.82	61	7.01	91	19.74	
1424	Slc25a43	2.8	26	1.6	53	4.49	
1425	Tmem180	2.8	21	1.58	40	4.43	
1426	Fndc3b	2.8	1352	65.19	2634	182.59	
1427	03/02/15	2.8	248	32.32	440	90.52	
1428	Wdr19	2.8	36	1.56	65	4.36	
1429	Lrrm1	2.79	13	1.06	25	2.97	
1430	Ldlrad3	2.78	86	2.98	136	8.27	
1431	Cttna1	2.78	180	7.66	295	21.26	
1432	Ifi27	2.78	260	76.19	485	211.43	
1433	AABR07054405.1	2.77	143	9.46	271	26.26	
1434	Tor4a	2.77	11	0.91	22	2.53	
1435	Gpr137	2.77	14	1.66	26	4.6	
1436	Rangrf	2.77	16	3.27	38	9.08	
1437	Tmem261	2.77	24	6.29	42	17.44	
1438	Chst11	2.77	381	19.86	651	54.93	
1439	Isoc1	2.76	104	22.85	179	63.18	
1440	LOC103692171	2.76	0	6.55	1	18.1	
1441	Gins3	2.76	12	1.04	20	2.88	
1442	Cnr1	2.76	11	0.46	23	1.26	
1443	Gstk1	2.76	22	5.21	41	14.39	
1444	Srd5a1	2.76	25	1.83	49	5.06	
1445	5_8S_rRNA_16	2.76	0	449.48	0	1240.03	
1446	Ntpcr	2.75	23	4.65	45	12.79	
1447	AABR07056556.2	2.75	0	37.35	0	102.81	
1448	Sarm1	2.75	27	1.73	57	4.75	
1449	Eml1	2.74	37	1.87	55	5.14	
1450	Adamts17	2.74	19	0.67	41	1.83	
1451	Clec2d2	2.74	51	3.37	78	9.22	
1452	Chsy1	2.74	359	22.33	684	61.15	
1453	Sptssa	2.74	94	13.3	155	36.4	
1454	Lrrn2	2.74	27	1.29	42	3.53	

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	A	B	C	D	E	F	G
1455	Tmem42	2.74	22	2.32	35	6.34	
1456	Lrp11	2.73	83	4.5	132	12.29	
1457	Tlr3	2.73	61	3.18	117	8.67	
1458	LOC690617	2.72	37	3.1	86	8.46	
1459	Acvr2b	2.72	18	1.11	25	3.03	
1460	Asrgl1	2.72	21	1.22	27	3.32	
1461	Ccnjl	2.72	43	1.37	103	3.73	
1462	Mest	2.72	13	2	18	5.44	
1463	Qpct	2.72	8	1.31	16	3.56	
1464	Rft1	2.72	45	3.71	69	10.1	
1465	SNORD12_3	2.72	0	21.9	0	59.68	
1466	Syce1l	2.72	19	1.94	24	5.29	
1467	Tshz3	2.72	16	0.4	21	1.08	
1468	Eda2r	2.72	19	1.05	25	2.86	
1469	LOC102723236_2	2.72	0	32.39	0	88.1	
1470	Tctn1	2.72	58	3.31	96	9	
1471	Ltbp1	2.72	380	11.97	683	32.53	
1472	Ptk2b	2.71	26	0.95	38	2.58	
1473	Pttg1	2.71	15	3.58	29	9.71	
1474	Snx29	2.71	140	3.41	229	9.24	
1475	Stk24	2.7	211	34.21	371	92.53	
1476	lft122	2.7	88	2.84	122	7.67	
1477	Id3	2.7	312	83.47	565	225.3	
1478	AC117925.2	2.7	0	1.94	0	5.23	
1479	Rcor2	2.7	0	0.7	0	1.88	
1480	Rpusd1	2.7	15	1.87	30	5.04	
1481	AABR07066529.1	2.7	21	2.54	38	6.84	
1482	Acot3	2.7	10	1.35	29	3.65	
1483	Ddx25	2.7	15	2.1	30	5.67	
1484	Enkd1	2.7	6	1.14	11	3.07	
1485	Pald1	2.7	56	2.85	101	7.7	
1486	Armt1	2.69	28	2.05	48	5.5	
1487	Klhl17	2.69	27	2.43	48	6.53	
1488	Smox	2.69	24	1.91	50	5.15	
1489	Oaf	2.69	53	6.77	104	18.18	
1490	Dock9	2.68	125	2.18	238	5.86	
1491	RGD1563072_2	2.68	11	2.59	14	6.95	
1492	Tsc22d1	2.68	1987	80.48	3084	215.55	
1493	Agpat2	2.68	46	8.55	75	22.9	
1494	Trmu	2.68	30	2.89	55	7.74	
1495	RGD1561113	2.68	34	43.51	57	116.38	
1496	Fam214a	2.67	279	9.06	484	24.23	
1497	Nbl1	2.67	160	19.99	274	53.45	
1498	Tceal1	2.67	31	6.58	55	17.59	
1499	AABR07015057.1	2.67	551	328.34	1059	876.66	
1500	Pomk	2.67	208	15.17	381	40.51	
1501	Mcoln1	2.67	106	8.79	162	23.44	
1502	Abcg1	2.66	14	0.77	25	2.05	
1503	Efhc1	2.66	8	0.67	20	1.8	
1504	LOC100912455	2.66	0	0.49	0	1.31	
1505	Mepce	2.66	0	0.75	0	2.01	
1506	Mertk	2.66	14	0.32	19	0.86	
1507	Nubpl	2.66	35	0.79	37	2.11	
1508	Rad51c	2.66	14	0.64	19	1.69	

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	A	B	C	D	E	F	G
1509	Scg3	2.66	16	1.39	25	3.72	
1510	Tmem140	2.66	13	1.09	22	2.91	
1511	Tmem167b	2.66	5	2.32	8	6.18	
1512	Ube2ql1	2.66	12	0.56	15	1.5	
1513	Vsig10l	2.66	15	1.29	23	3.45	
1514	Rpp25	2.66	24	4.33	44	11.54	
1515	Parp9	2.66	173	9.88	290	26.31	
1516	LOC100362830	2.66	21	44.54	40	118.27	
1517	Fut4	2.65	46	2.89	84	7.68	
1518	Dbp	2.65	22	2.49	41	6.59	
1519	Zfp167	2.65	41	0.88	55	2.32	
1520	Alad	2.65	82	9.66	142	25.59	
1521	Gatsl2	2.64	24	2.21	31	5.84	
1522	Nkiras1	2.64	12	1.22	21	3.21	
1523	Pcdhga7	2.64	22	2.26	40	5.96	
1524	Tbcel	2.64	127	4.63	173	12.24	
1525	Bcat1	2.64	358	24.11	573	63.62	
1526	Slc22a5	2.64	217	1.09	215	2.87	
1527	Htra3	2.64	153	12.05	228	31.76	
1528	Fam171b	2.63	136	11.67	237	30.72	
1529	Akr1cl	2.63	37	3.94	47	10.37	
1530	Igtp	2.63	39	1.23	68	3.23	
1531	LOC100911186	2.63	0	3.53	0	9.28	
1532	Gsto2_1	2.63	8	3.01	14	7.9	
1533	Mgmt	2.63	59	6.34	80	16.68	
1534	Lnx2	2.63	69	2.6	133	6.85	
1535	Atl1	2.62	11	0.47	17	1.22	
1536	Ccdc84	2.62	23	1.25	29	3.26	
1537	Gcat	2.62	10	1.59	18	4.15	
1538	Gpt	2.62	12	1.43	21	3.75	
1539	Hba1	2.62	11	8.96	25	23.44	
1540	Il16	2.62	13	0.25	10	0.65	
1541	Lrrc24	2.62	8	0.62	14	1.62	
1542	Nipal3	2.62	12	1.14	22	2.98	
1543	Nrxn3_2	2.62	4	0.96	5	2.52	
1544	SNORD36_7	2.62	0	18.06	0	47.23	
1545	Zfand4	2.62	38	0.94	38	2.45	
1546	Fkbpl	2.62	1	0.96	3	2.52	
1547	Fuz	2.62	12	1.51	35	3.96	
1548	Nek2	2.62	5	0.94	5	2.45	
1549	Pcdhb12	2.62	5	0.41	7	1.08	
1550	Pus7l	2.62	19	0.9	26	2.35	
1551	Slc28a2	2.62	22	0.3	17	0.78	
1552	Tubgcp5	2.61	85	3.64	155	9.49	
1553	Per3	2.61	65	1.94	109	5.07	
1554	Mks1	2.61	36	2.93	57	7.64	
1555	AC117925.5	2.6	1	1.91	2	4.97	
1556	Pigh	2.6	26	2	45	5.19	
1557	Sgsm2	2.6	250	8.53	408	22.19	
1558	Rpgrip1l	2.59	49	0.99	77	2.56	
1559	Chst12	2.59	14	2.16	25	5.61	
1560	Aplf	2.59	2432	5.8	1429	15.03	
1561	Mgat4b	2.59	473	45.88	825	118.83	
1562	Gatb	2.59	51	4.22	77	10.93	

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	A	B	C	D	E	F	G
1563	Apbb2	2.58	9	3.54	18	9.15	
1564	LOC100912538	2.58	0	2.23	0	5.76	
1565	Lsm10	2.58	20	4.95	40	12.79	
1566	Clstn2	2.58	41	0.82	49	2.12	
1567	Pon3	2.58	8	1.55	13	3.99	
1568	Socs7	2.58	50	5.17	102	13.36	
1569	Sema3b	2.58	127	12.4	226	32.01	
1570	Zfp799	2.58	31	3.55	56	9.16	
1571	Bdh1	2.58	96	5.84	152	15.05	
1572	Nqo1	2.58	22	3.47	40	8.94	
1573	Tmem184c	2.58	367	33.91	651	87.36	
1574	Ncoa4	2.57	437	29.9	755	76.96	
1575	AABR07035107.1	2.57	21	4.64	43	11.94	
1576	Harbi1	2.57	16	1.34	27	3.44	
1577	Nbeal2	2.57	32	0.75	50	1.92	
1578	Pdf	2.57	18	4.65	28	11.96	
1579	Ubash3b	2.57	121	3.7	249	9.52	
1580	Unc79	2.57	29	0.43	37	1.1	
1581	Abcd1	2.57	33	1.64	65	4.21	
1582	Trim25	2.57	170	14.03	300	36.01	
1583	Irf1	2.56	91	10.35	152	26.53	
1584	AABR07007000.1	2.56	21	11.25	39	28.81	
1585	Zfp157	2.56	38	1.62	55	4.15	
1586	Cry1	2.56	110	9.21	187	23.54	
1587	Mylip	2.55	136	7.39	226	18.88	
1588	Sema5a	2.55	2578	54.36	4382	138.85	
1589	Zmiz1	2.55	688	17.79	1158	45.4	
1590	Cpz	2.55	50	5.63	86	14.37	
1591	P3h4	2.55	121	15.86	212	40.43	
1592	Podxl2	2.55	81	8.29	141	21.11	
1593	Ogn_1	2.55	550	99.85	911	254.4	
1594	LOC100360491	2.55	27	57.74	77	146.96	
1595	Fkbp7	2.54	54	3.47	87	8.82	
1596	Mtg1	2.54	45	5.93	74	15.07	
1597	Nhlrc1	2.54	4	0.84	7	2.13	
1598	SNORD24_3	2.54	16	48.62	28	123.63	
1599	AABR07044711.1	2.54	0	0.68	1	1.73	
1600	B3galt6	2.54	16	1.87	28	4.74	
1601	B3gnt1	2.54	0	0.8	0	2.03	
1602	Bloc1s3	2.54	4	1.7	7	4.31	
1603	Btbd8_2	2.54	8	1.76	10	4.47	
1604	Cdk18	2.54	9	0.27	11	0.7	
1605	Cyp2j4	2.54	7	0.52	7	1.31	
1606	Ikzf4	2.54	5	0.57	10	1.44	
1607	Laptm5	2.54	6	0.42	9	1.08	
1608	LOC100912391	2.54	42	3.32	71	8.44	
1609	Lzts1	2.54	9	0.2	8	0.51	
1610	Pemt	2.54	16	2.24	29	5.7	
1611	Pex10	2.54	23	2.93	36	7.46	
1612	Pik3r5	2.54	6	0.21	9	0.54	
1613	Rn60_X_0744.1	2.54	8	7.44	12	18.91	
1614	Sema3f	2.54	8	0.16	7	0.42	
1615	Tmem223	2.54	63	19.99	105	50.83	
1616	LOC497963	2.54	13	0.3	18	0.76	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
1617	Fam13c	2.53	118	8.72	276	22.08	
1618	Oxa1l	2.53	217	20.6	369	52.17	
1619	Klhl26	2.53	36	1.76	60	4.45	
1620	Ddt	2.53	100	39.34	176	99.45	
1621	Il11ra1	2.52	44	5.53	71	13.95	
1622	Pidd1	2.52	3	1.43	8	3.6	
1623	Klhl11	2.52	144	13.97	245	35.18	
1624	Sh3d19	2.52	41	3.15	57	7.94	
1625	Rab3a	2.52	11	2.72	18	6.84	
1626	Il13ra1	2.52	4	7.97	14	20.07	
1627	Gnb5	2.51	19	2.6	31	6.51	
1628	AABR07036746.1	2.51	0	4.52	0	11.35	
1629	LOC100910872	2.51	7	1.93	8	4.83	
1630	Zfp952	2.51	19	1.98	32	4.97	
1631	Crtc1	2.51	98	6.71	161	16.83	
1632	Smco4	2.51	37	8.02	53	20.09	
1633	Fam20b	2.5	50	3.75	55	9.39	
1634	Nfix	2.5	83	5.13	81	12.85	
1635	Pced1b	2.5	55	2.25	102	5.62	
1636	Cpt1a	2.5	222	11.57	398	28.95	
1637	Slc25a1	2.49	311	43.59	520	108.73	
1638	Ctsf	2.49	42	5.62	73	13.99	
1639	AABR07062512.1	2.49	12	1.17	17	2.92	
1640	Alkbh6_1	2.49	0	3.75	0	9.33	
1641	Card14	2.49	71	0.58	85	1.45	
1642	Dhx34	2.49	41	2.24	65	5.58	
1643	Glrx	2.49	10	1.36	13	3.39	
1644	Hoga1	2.49	12	0.98	21	2.45	
1645	Miip	2.49	10	4.84	21	12.07	
1646	Tspan4	2.49	0	2.47	0	6.16	
1647	Wdr78	2.49	41	0.47	31	1.17	
1648	Kcnq5	2.49	51	0.27	67	0.67	
1649	LOC100125367	2.49	6	0.89	10	2.21	
1650	Tspy26	2.49	7	0.84	12	2.1	
1651	C1qtnf1	2.49	44	3.03	80	7.53	
1652	LOC100911130	2.48	0	14.88	0	36.97	
1653	Tysnd1	2.48	28	1.83	36	4.54	
1654	Nipal2	2.48	37	1.93	41	4.77	
1655	Cdip1	2.48	256	11.11	309	27.52	
1656	Btd	2.47	153	14.1	230	34.88	
1657	Jade2	2.47	116	7.37	212	18.22	
1658	Rnasek	2.47	13	19.92	28	49.26	
1659	Psmb8	2.47	4	1.21	9	2.98	
1660	Sgsh	2.47	30	8.12	52	20.05	
1661	Il27ra	2.47	15	0.52	21	1.28	
1662	Olfml3	2.47	94	13.18	159	32.54	
1663	Rad51d	2.46	34	2.25	54	5.54	
1664	Tmem259	2.46	90	11.7	141	28.81	
1665	AY172581.15	2.46	13	46.94	22	115.44	
1666	Dedd2	2.46	19	1.46	28	3.58	
1667	Zfp606	2.46	19	1.32	35	3.25	
1668	Akr7a2	2.46	52	7.17	77	17.62	
1669	Gstm7	2.45	179	13.63	266	33.44	
1670	Mcph1	2.45	70	2.43	100	5.96	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
1671	Tp53i3	2.45	25	2.51	29	6.15	
1672	Abhd13	2.45	134	5.39	205	13.2	
1673	Ap1s3	2.45	43	1.87	69	4.57	
1674	Lmf1	2.45	112	6.58	156	16.11	
1675	Palm	2.45	894	9.42	119	23.05	
1676	Zhx3	2.45	91	5.46	145	13.37	
1677	Prpsap1	2.45	192	17.64	291	43.15	
1678	Anpep	2.45	234	14.49	386	35.45	
1679	Zfp869	2.44	28	3.91	50	9.55	
1680	AC117925.8	2.44	0	4.87	0	11.88	
1681	Usp21	2.44	116	10.45	170	25.48	
1682	Fam53b	2.43	68	1.79	115	4.36	
1683	Pcnxl4	2.43	66	3.05	107	7.41	
1684	Slc23a2	2.43	863	25.36	1335	61.7	
1685	AABR07037943.1	2.42	4	0.3	9	0.73	
1686	AC091229.1	2.42	15	0.79	23	1.92	
1687	Acrbp	2.42	5	0.59	8	1.44	
1688	Car11	2.42	6	0.56	13	1.36	
1689	Ccbl2	2.42	6	0.55	10	1.33	
1690	Ccdc171	2.42	18	0.17	18	0.41	
1691	Coq10a	2.42	47	3.91	67	9.48	
1692	Cpxm1	2.42	13	1.26	20	3.06	
1693	Dact3	2.42	4	0.27	5	0.65	
1694	Ero1lb	2.42	7	0.46	11	1.12	
1695	Fancb	2.42	7	0.48	15	1.16	
1696	Irak1bp1	2.42	20	1.21	22	2.94	
1697	Lrrc29	2.42	14	0.32	20	0.79	
1698	Mlxipl	2.42	5	0.23	7	0.55	
1699	Mmp15	2.42	3	0.19	6	0.45	
1700	Naa11	2.42	3	0.23	5	0.56	
1701	Parp14	2.42	145	4.58	236	11.08	
1702	RGD1307947	2.42	8	0.94	13	2.27	
1703	RGD1561777_1	2.42	15	1.1	22	2.66	
1704	RT1-M3-1	2.42	25	3.54	42	8.57	
1705	Slain1	2.42	46	5	68	12.11	
1706	Slc15a3	2.42	4	0.33	6	0.8	
1707	Stard10	2.42	12	1.5	16	3.64	
1708	Tnfaip8l2	2.42	11	0.54	9	1.31	
1709	Wnk4	2.42	0	0.18	1	0.43	
1710	AABR07005779.2	2.42	4	1.48	6	3.58	
1711	AABR07061178.1	2.42	9	1.94	13	4.7	
1712	Atp5s	2.42	20	0.75	14	1.82	
1713	Atp6v1c2	2.42	10	0.52	22	1.27	
1714	Car6	2.42	5	0.54	7	1.32	
1715	Cd302	2.42	7	0.62	10	1.5	
1716	Cited1	2.42	9	1.35	18	3.26	
1717	Dusp19	2.42	11	2.28	16	5.52	
1718	Eppin	2.42	14	0.54	29	1.31	
1719	Ggh	2.42	6	1.1	10	2.68	
1720	Kazald1	2.42	3	0.46	7	1.12	
1721	Kcns3	2.42	5	0.32	11	0.78	
1722	LOC102549158	2.42	0	0.47	1	1.13	
1723	LOC257642	2.42	7	9.84	12	23.82	
1724	Mpp2	2.42	22	1.56	36	3.77	

Supplemental Table 2
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	A	B	C	D	E	F	G
1725	Phf1	2.42	55	4.45	76	10.78	
1726	Prkag2	2.42	150	4.27	182	10.35	
1727	Ptges2	2.42	46	4.84	72	11.72	
1728	Rn60_X_0714.1	2.42	11	0.66	22	1.6	
1729	Slc14a2_2	2.42	5	0.83	6	2.01	
1730	Sod2	2.42	105	12.32	172	29.84	
1731	Tkfc	2.42	40	3.47	57	8.41	
1732	Vom2r44	2.42	7	0.11	10	0.26	
1733	Wnt6	2.42	13	1.09	23	2.64	
1734	Wwox	2.42	3	1.74	6	4.22	
1735	Optn	2.42	173	6.48	282	15.67	
1736	Cyb5a	2.41	72	21.59	111	52.14	
1737	Gpc1	2.41	222	15.76	368	38.04	
1738	RT1-CE10	2.41	52	7.43	72	17.92	
1739	Saal1	2.41	50	1.66	74	4.01	
1740	Sirt3	2.41	79	6.85	101	16.49	
1741	Dzip3	2.41	68	1.96	82	4.72	
1742	Arsb	2.41	170	8.86	270	21.33	
1743	Hacd3	2.4	217	18.92	352	45.46	
1744	Ttc8	2.4	71	4.86	102	11.68	
1745	Ammecr1	2.4	47	5.7	70	13.69	
1746	Mast4_2	2.4	106	14.84	163	35.62	
1747	Ednra	2.4	80	3.09	134	7.42	
1748	Nudt14	2.4	23	6	44	14.38	
1749	Tctex1d2_1	2.4	20	5.64	32	13.53	
1750	Sgcb	2.4	122	7.65	209	18.35	
1751	Tref1	2.4	161	6.78	270	16.24	
1752	Cpt1c	2.4	56	3.38	78	8.09	
1753	Fkbp10	2.4	415	33.86	683	81.09	
1754	Pex19_1	2.39	41	9.23	45	22.11	
1755	Car14	2.39	32	3.39	40	8.11	
1756	Gdf11	2.39	34	2.11	57	5.05	
1757	Ccnf	2.39	79	4.89	119	11.69	
1758	Plxna3	2.39	91	2.94	148	7.02	
1759	AABR07036019.1	2.39	17	1.04	27	2.47	
1760	Zfp287	2.39	16	1.52	25	3.64	
1761	Slc37a4	2.39	54	4.88	87	11.66	
1762	Zcchc11	2.39	567	21.65	825	51.65	
1763	RGD1311744	2.39	62	3.68	96	8.77	
1764	Sgsm3	2.38	31	2.2	48	5.23	
1765	AABR07058985.2	2.38	21	2.04	35	4.85	
1766	Reep4	2.38	65	7.97	108	18.99	
1767	Cnm3	2.38	101	5.04	154	11.99	
1768	Lemd2	2.38	14	6.16	21	14.67	
1769	Abhd14a	2.38	15	1.68	28	4	
1770	Cbr4	2.38	14	2.34	23	5.58	
1771	Chek2	2.38	25	1.34	37	3.18	
1772	Mbd4	2.38	20	1.61	26	3.83	
1773	Mecr	2.38	25	2.11	33	5.01	
1774	Stra13	2.38	12	13.64	19	32.42	
1775	Tmem126b	2.38	43	4.49	71	10.67	
1776	Uvssa	2.38	12	1.04	16	2.48	
1777	Zfp964	2.38	11	1.78	18	4.23	
1778	AABR07069599.1	2.38	11	5.5	23	13.09	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
1779	Thra	2.37	157	9.12	210	21.65	
1780	Evl	2.37	206	15.79	316	37.47	
1781	Fut11	2.37	46	4.96	55	11.77	
1782	Emp3	2.37	604	191.74	966	454.95	
1783	Zmat1	2.37	39	2.44	63	5.79	
1784	Zfp358	2.37	86	10.31	137	24.42	
1785	Gsto1	2.37	25	12.28	40	29.07	
1786	Creb3l1	2.37	38	3.3	61	7.82	
1787	Smoc1	2.37	1923	164.37	2778	388.77	
1788	Zfp772	2.36	11	0.97	12	2.28	
1789	Hrsp12	2.36	28	6.73	54	15.88	
1790	Tcea2	2.36	34	3.34	37	7.88	
1791	Bmpr2	2.36	821	37.67	1376	88.9	
1792	Polr1c	2.36	108	14.41	135	34	
1793	Enc1	2.36	165	8.79	271	20.72	
1794	Ttc5	2.36	125	12.33	193	29.06	
1795	Nr1d1	2.36	45	4.4	70	10.37	
1796	Pcid2	2.36	58	4.74	99	11.18	
1797	Akr1e2	2.36	145	20.4	250	48.06	
1798	Ccdc53	2.36	68	8.92	84	21.03	
1799	Zfyve9	2.36	126	5.16	198	12.16	
1800	Appbp2	2.35	572	20.61	936	48.49	
1801	Rbmxl1b	2.35	30	6.42	43	15.1	
1802	Dync2h1	2.35	94	1.97	165	4.63	
1803	Pmp22	2.35	18	1.63	22	3.84	
1804	SNORD79	2.35	13	38.11	21	89.45	
1805	Lysmd4	2.35	20	2.46	30	5.77	
1806	LOC100910891	2.34	9	17.16	5	40.23	
1807	Dhodh	2.34	83	4.95	161	11.59	
1808	Cacfd1	2.34	129	4.4	140	10.3	
1809	Atp8a1	2.34	38	1.4	72	3.27	
1810	Fbxl3-ps1	2.34	21	1.03	31	2.42	
1811	Wdr34	2.34	46	2.05	57	4.8	
1812	Mrpl36_1	2.34	15	6.69	31	15.65	
1813	Sphk1	2.34	24	1.52	45	3.54	
1814	Myocd	2.34	387	14.49	641	33.86	
1815	Usp11	2.34	237	16.03	377	37.47	
1816	Zfp192	2.34	59	1.58	94	3.7	
1817	Rn60_15_0408.6	2.33	3	1.63	10	3.8	
1818	Gba	2.33	107	13.25	162	30.9	
1819	Tmem67	2.33	67	2.64	97	6.17	
1820	Ppox	2.33	55	6.62	84	15.42	
1821	Ptov1	2.33	661	90.43	1055	210.68	
1822	Nsmce4a	2.33	78	17.99	131	41.87	
1823	Ccdc18	2.32	14	0.21	18	0.5	
1824	Eef2kmt	2.32	13	1.49	10	3.46	
1825	Fam189b	2.32	47	3.67	70	8.54	
1826	Ghdc	2.32	11	1.16	18	2.69	
1827	Hint3	2.32	22	2.31	27	5.37	
1828	Il18bp	2.32	11	2.67	18	6.2	
1829	Rnf43	2.32	25	0.53	22	1.23	
1830	Slc39a8	2.32	7	0.38	10	0.89	
1831	Zfp316	2.32	16	0.82	18	1.9	
1832	Zfp773	2.32	5	0.97	9	2.26	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
1833	LOC687609	2.32	23	0.49	22	1.14	
1834	Ssbp2	2.32	159	9.13	206	21.23	
1835	Zfp652	2.32	42	3.3	63	7.66	
1836	Herpud1	2.32	251	32.74	392	76.07	
1837	Bnip3l	2.32	391	24.46	578	56.7	
1838	Cln6	2.32	45	3.61	63	8.37	
1839	Hcn2	2.32	39	3.14	60	7.27	
1840	LOC367746	2.31	53	19	82	43.98	
1841	Pnrc1	2.31	125	19.35	198	44.75	
1842	Abhd14b	2.31	52	7.49	91	17.34	
1843	Zfp41	2.31	54	3.53	88	8.18	
1844	Cox19	2.31	70	3.67	92	8.48	
1845	Plekhj1	2.31	46	10.27	48	23.7	
1846	Mknk1	2.31	95	5.94	143	13.7	
1847	Mis18a	2.3	43	4.85	58	11.17	
1848	St6gal1	2.3	72	3.86	112	8.9	
1849	Hps1	2.3	95	5.24	151	12.06	
1850	AC126148.3	2.3	0	1.9	0	4.38	
1851	Polr3gl	2.3	38	1.41	36	3.24	
1852	Sirt2	2.3	131	12.47	210	28.69	
1853	Smpdl3b	2.3	36	3.64	58	8.39	
1854	Sned1	2.3	38	1.07	59	2.46	
1855	Zfp398	2.3	72	2.6	80	5.97	
1856	Sp4	2.3	37	1.73	52	3.98	
1857	Zfp395	2.3	150	8.45	228	19.43	
1858	Esr2	2.3	475	22.03	706	50.58	
1859	Agap1	2.3	192	5.02	332	11.53	
1860	Ephb4	2.3	497	29.32	759	67.31	
1861	Ephb6	2.29	118	6.99	189	16.03	
1862	Tmem260	2.29	164	4.02	221	9.21	
1863	Ice2	2.29	63	2.64	87	6.06	
1864	RGD1311756	2.29	67	1.85	105	4.25	
1865	Bckdhb	2.29	45	4.34	53	9.94	
1866	Acot8	2.29	18	3.23	17	7.39	
1867	Ccdc61	2.29	53	2.58	69	5.92	
1868	Tpst2	2.29	68	4.71	73	10.8	
1869	Mettl7a	2.29	43	4.63	65	10.6	
1870	Tenm3	2.29	223	6.52	347	14.93	
1871	Atp8b3	2.28	12	0.4	16	0.91	
1872	Cyb561d1	2.28	15	2.01	25	4.58	
1873	SNORD82	2.28	0	24.22	0	55.32	
1874	Baiap3	2.28	4	0.31	11	0.71	
1875	E2f2	2.28	10	0.37	14	0.84	
1876	Kcnab3	2.28	7	0.83	12	1.89	
1877	Pim2	2.28	9	0.67	12	1.52	
1878	Rhbdl3	2.28	53	2.33	80	5.31	
1879	Sdhaf1	2.28	47	14.72	73	33.61	
1880	Mgst1	2.28	209	51.14	333	116.62	
1881	Bmpr1b	2.28	354	42.25	566	96.28	
1882	Tmem59	2.28	391	57.65	597	131.37	
1883	Vps41	2.28	177	13.19	273	30.03	
1884	Ckb	2.27	23	3.7	37	8.41	
1885	Sulf2	2.27	344	18.81	520	42.79	
1886	Foxo1	2.27	2228	152.61	3231	346.79	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
1887	Trappc2	2.27	31	2.92	33	6.63	
1888	Sema4c	2.27	123	6.64	195	15.08	
1889	Camk1d	2.27	68	1.4	82	3.18	
1890	Snrnp25	2.27	44	11.05	57	25.02	
1891	Acadm	2.26	91	9.82	143	22.25	
1892	Fut10	2.26	48	2.76	77	6.26	
1893	Itm2a	2.26	14	1.39	15	3.14	
1894	Qrs1	2.26	25	1.1	31	2.48	
1895	Ttc38	2.26	19	1.12	29	2.53	
1896	Dzank1	2.26	24	0.89	34	2	
1897	Tbc1d32	2.26	29	0.57	38	1.3	
1898	Fibp	2.25	126	24.58	194	55.42	
1899	Rnf13	2.25	260	13.06	259	29.45	
1900	Jag2	2.25	26	1.1	34	2.48	
1901	Sucla2	2.25	224	22.39	326	50.36	
1902	Cyp2u1	2.25	76	4.05	117	9.12	
1903	Npr12	2.25	38	5.35	53	12.02	
1904	Rn60_20_0056.5	2.25	11	5.19	17	11.66	
1905	Tcf7	2.25	36	1.77	33	3.97	
1906	Tspan17	2.25	29	3.32	42	7.46	
1907	Pddc1	2.24	18	9.47	22	21.24	
1908	Zfp52	2.24	68	3.53	106	7.91	
1909	Cplx2	2.24	77	5.03	110	11.26	
1910	Grcc10	2.24	33	25.61	42	57.24	
1911	Nfs1	2.24	14	4.84	22	10.82	
1912	Rfesd	2.24	16	4.2	20	9.39	
1913	Rpain	2.24	36	4.21	43	9.42	
1914	Decr1	2.23	125	17.64	176	39.4	
1915	Abcd2	2.23	29	0.68	44	1.51	
1916	Dym	2.23	121	6.93	163	15.44	
1917	Stom1	2.23	22	1.72	28	3.83	
1918	Zp2	2.23	21	1.68	30	3.74	
1919	Sesn1	2.23	63	3.39	98	7.56	
1920	Tcf7l2	2.23	135	5.65	199	12.57	
1921	Cpped1	2.23	50	3.85	84	8.57	
1922	Tmem161a	2.22	56	5.78	81	12.85	
1923	Mfsd11	2.22	80	5.7	127	12.68	
1924	Cd320	2.22	44	6.5	60	14.44	
1925	Fbxo7	2.22	109	10.97	154	24.39	
1926	Rilpl2	2.22	39	6.57	60	14.61	
1927	Plekhd1	2.22	21	1.26	28	2.8	
1928	Zcchc4	2.22	43	1.71	48	3.81	
1929	Gpatch4	2.22	46	4.79	108	10.63	
1930	Tspan9	2.22	278	14.63	431	32.43	
1931	Ltbp3	2.22	526	28.56	793	63.27	
1932	Osbpl6	2.22	89	1.96	118	4.34	
1933	AABR07011996.1	2.21	21	1.54	33	3.42	
1934	Pdpx	2.21	23	2.63	34	5.83	
1935	Zfp169	2.21	24	1.95	40	4.32	
1936	Kcnmb4	2.21	41	4.77	48	10.55	
1937	Nrip1	2.21	379	10.21	590	22.57	
1938	Nelfcd	2.21	141	13.68	207	30.22	
1939	AABR07009715.1	2.21	13	7.93	24	17.5	
1940	Mapkapk3	2.2	159	13.87	239	30.57	

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	A	B	C	D	E	F	G
1941	RGD1562299	2.2	94	3.51	119	7.74	
1942	Mxd1	2.2	40	1.92	64	4.23	
1943	Sipa1l3	2.2	161	3.78	258	8.3	
1944	Pan3	2.2	295	12.75	423	28.01	
1945	Ermp1	2.2	298	13.32	439	29.25	
1946	Bnc2	2.2	190	5.2	353	11.43	
1947	Slc22a23	2.19	143	4.57	252	10.01	
1948	Nt5c3b	2.19	145	7.88	185	17.26	
1949	Atg13	2.19	115	15.09	161	33.01	
1950	Ilvbl	2.19	111	9.37	167	20.5	
1951	Sgpp1	2.19	242	18.19	352	39.77	
1952	Fcgrt	2.19	116	16.88	164	36.91	
1953	Prpsap2	2.19	151	15.06	225	32.93	
1954	LOC100365839	2.18	0	0.58	0	1.26	
1955	Sdk1	2.18	19	0.3	41	0.65	
1956	SNORA61_15	2.18	0	3.83	0	8.36	
1957	Tmem150b	2.18	8	0.52	11	1.13	
1958	3082ex4-5	2.18	4	3.18	6	6.94	
1959	AABR07001099.1	2.18	4	0.62	7	1.36	
1960	AABR07010570.1	2.18	0	0.77	0	1.67	
1961	AABR07030603.1	2.18	2	1.58	3	3.45	
1962	AABR07034940.2	2.18	11	0.94	37	2.05	
1963	AABR07044933.1	2.18	0	0.97	1	2.11	
1964	AABR07045217.1	2.18	4	1.24	5	2.69	
1965	AABR07054264.1	2.18	2	2.6	3	5.66	
1966	Abtb2	2.18	87	2.11	84	4.59	
1967	AC096326.1	2.18	14	0.68	14	1.49	
1968	Acot2	2.18	14	1.89	24	4.12	
1969	Akr1b1-ps2	2.18	2	0.53	2	1.15	
1970	Ankrd6	2.18	17	0.3	17	0.65	
1971	BC024978	2.18	15	1.75	23	3.81	
1972	Bnc1	2.18	3	0.11	3	0.23	
1973	Bola2	2.18	0	1.93	1	4.21	
1974	Btbd16	2.18	9	0.26	9	0.57	
1975	Cadps	2.18	27	0.29	29	0.63	
1976	Camk2n2	2.18	5	1.13	3	2.46	
1977	Ccdc155	2.18	3	0.27	4	0.59	
1978	Cd14	2.18	36	5.28	54	11.51	
1979	Comtd1	2.18	23	2.38	36	5.18	
1980	Crispld1	2.18	3	0.22	6	0.49	
1981	Crnk1l_2	2.18	0	0.21	0	0.46	
1982	Csf1r	2.18	14	0.13	4	0.27	
1983	Dnajc22	2.18	3	0.34	4	0.74	
1984	Dnase2	2.18	23	3.84	34	8.37	
1985	Doc2g	2.18	2	0.34	4	0.74	
1986	Elavl2	2.18	18	0.36	17	0.79	
1987	Fam161b	2.18	7	0.56	6	1.23	
1988	Fam21c	2.18	352	18.38	523	40.07	
1989	Fbxo16	2.18	23	1.58	23	3.44	
1990	Gal	2.18	3	0.59	3	1.29	
1991	Gnpda2	2.18	10	0.82	9	1.79	
1992	Gria2	2.18	11	0.07	5	0.16	
1993	Gtpbp3	2.18	32	2.75	46	6	
1994	Hmg1l1_2	2.18	0	2.33	1	5.08	

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	A	B	C	D	E	F	G
1995	Ifi47	2.18	4	0.53	6	1.16	
1996	Kank4	2.18	4	0.1	10	0.23	
1997	Kbtbd8	2.18	16	0.7	22	1.53	
1998	LOC100910316	2.18	2	0.33	2	0.71	
1999	LOC100911874_1	2.18	0	0.35	0	0.75	
2000	LOC102553099	2.18	0	2.9	0	6.33	
2001	LOC102554393	2.18	4	0.11	13	0.25	
2002	LOC500956	2.18	9	1.25	14	2.72	
2003	LOC688286	2.18	6	0.42	14	0.91	
2004	Lysmd2	2.18	66	6.65	95	14.5	
2005	Magel2	2.18	6	0.4	9	0.86	
2006	Metrn	2.18	2	0.54	3	1.18	
2007	Mogat1	2.18	5	0.41	2	0.9	
2008	Mycbpap	2.18	2	0.14	6	0.32	
2009	Myo15b	2.18	7	0.05	8	0.1	
2010	Notch1	2.18	21	0.47	30	1.03	
2011	Npff	2.18	3	1.13	6	2.46	
2012	Nr0b2	2.18	6	1.35	11	2.93	
2013	Nudt16	2.18	9	1.26	13	2.75	
2014	Nudt7	2.18	48	2.34	97	5.1	
2015	Ogfrl1	2.18	7	0.58	6	1.27	
2016	Oxld1	2.18	9	1.58	9	3.45	
2017	Pex12	2.18	15	1.49	21	3.24	
2018	Ppidl1	2.18	2	0.37	3	0.82	
2019	Rasgrp1	2.18	5	0.14	6	0.3	
2020	Rfx8	2.18	14	0.28	14	0.61	
2021	RGD1304870	2.18	4	2.84	6	6.19	
2022	Rn60_4_1361.1	2.18	0	0.23	0	0.51	
2023	Rn60_X_0635.3	2.18	2	0.49	3	1.07	
2024	Rnf185	2.18	93	6.87	137	14.97	
2025	Rpl37_2	2.18	0	2.87	0	6.26	
2026	RT1-M6-1	2.18	22	0.21	16	0.45	
2027	Saysd1	2.18	8	2.65	15	5.78	
2028	Scn8a	2.18	5	0.07	6	0.16	
2029	Sdr42e1	2.18	2	0.19	6	0.42	
2030	Slc50a1	2.18	43	8.43	59	18.37	
2031	Smim8	2.18	10	1.36	20	2.96	
2032	Smpd3	2.18	8	0.1	4	0.22	
2033	SNORA71_5	2.18	2	3.78	3	8.23	
2034	SNORD113_21	2.18	0	5.25	0	11.43	
2035	SNORD24_1	2.18	0	6.64	0	14.48	
2036	Sox13	2.18	11	0.49	15	1.06	
2037	Tbcc	2.18	0	0.43	0	0.94	
2038	Tmem106c	2.18	36	6.06	53	13.2	
2039	Trpv6	2.18	20	0.68	30	1.49	
2040	Tuba1c_1	2.18	0	1.11	0	2.42	
2041	Ulk4	2.18	37	0.93	43	2.03	
2042	Upk1b	2.18	2	0.27	7	0.59	
2043	Uros	2.18	10	1.27	18	2.76	
2044	Yipf2	2.18	46	6.74	60	14.69	
2045	Zc3h8	2.18	19	1.59	27	3.47	
2046	AABR07036007.1	2.18	3	4.34	4	9.47	
2047	AABR07048957.1	2.18	0	1.2	0	2.6	
2048	Ephb2	2.18	6	0.1	5	0.22	

Supplemental Table 2
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	A	B	C	D	E	F	G
2049	Fndc3c1	2.18	3	0.12	4	0.26	
2050	Gmpr	2.18	6	0.7	13	1.52	
2051	Hspb11	2.18	17	1.2	20	2.62	
2052	Kcnab2	2.18	9	0.25	12	0.55	
2053	Kcnc3	2.18	5	0.09	7	0.19	
2054	Kcp	2.18	4	0.11	4	0.23	
2055	Klf15	2.18	49	2.67	68	5.82	
2056	Layn	2.18	4	0.25	11	0.55	
2057	Leap2	2.18	2	2.64	2	5.75	
2058	LOC500077	2.18	8	1.23	15	2.69	
2059	LOC679683	2.18	0	1.03	1	2.25	
2060	Mtcp1_1	2.18	4	4.89	6	10.65	
2061	Pabpc1l2a	2.18	18	7.11	27	15.49	
2062	Ptch2	2.18	2	0.1	6	0.22	
2063	Rapgef3	2.18	21	0.74	19	1.6	
2064	Rps6kl1	2.18	9	0.31	4	0.67	
2065	Spa17	2.18	6	1.47	12	3.21	
2066	Tsga10	2.18	11	0.19	18	0.4	
2067	Neo1	2.17	417	19.21	614	41.76	
2068	Slc45a4	2.17	86	6.51	132	14.14	
2069	Cand2	2.16	63	2.74	81	5.94	
2070	Ginm1	2.16	122	19.17	160	41.49	
2071	Ralgapa2	2.16	83	2.09	179	4.52	
2072	Suox	2.16	48	5.34	70	11.56	
2073	Smarcd1	2.16	259	17.85	355	38.58	
2074	Abcd3	2.15	689	42.13	1030	90.79	
2075	Rhbdd3	2.15	38	3.91	51	8.42	
2076	Rnasel	2.15	30	1.51	44	3.25	
2077	Rabl2a	2.15	38	3.6	47	7.74	
2078	Ankmy2	2.15	170	14.21	271	30.56	
2079	LOC497940	2.15	68	4.28	73	9.21	
2080	Slc9a6	2.15	104	3.82	148	8.21	
2081	Ccng2	2.15	128	12	193	25.79	
2082	Scarb2	2.15	412	42.96	618	92.29	
2083	Echs1	2.15	0	3.83	0	8.22	
2084	LOC100910318_1	2.15	9	5.43	10	11.66	
2085	Rprd1a	2.15	102	5.18	81	11.12	
2086	Pex6	2.15	69	3.09	95	6.64	
2087	Cc2d2a	2.15	102	3.31	154	7.1	
2088	Slc36a4	2.15	77	5.46	104	11.72	
2089	Relb	2.15	39	2.68	45	5.76	
2090	Slc6a8	2.15	181	10.69	264	22.93	
2091	Cnrip1	2.15	25	3.17	34	6.8	
2092	RGD1561582	2.14	63	7.38	93	15.82	
2093	Them6	2.14	19	3.07	30	6.57	
2094	Acaa2	2.14	94	13.92	150	29.78	
2095	Ralgps2	2.14	46	3.64	72	7.79	
2096	Bscl2	2.14	71	11.65	97	24.9	
2097	Me1	2.14	1329	88.57	1973	189.28	
2098	Camta1_2	2.14	15	7.25	23	15.5	
2099	Psmb9	2.14	17	4.62	25	9.87	
2100	Tmem143	2.14	34	2.13	51	4.55	
2101	Tmod2	2.14	27	3.2	48	6.85	
2102	Ccnd2	2.14	535	83.17	829	177.71	

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	A	B	C	D	E	F	G
2103	Mettl20	2.13	21	2.33	31	4.96	
2104	Tm2d3	2.13	31	4.83	39	10.29	
2105	Senp17_2	2.13	23	5.23	28	11.16	
2106	Noa1	2.13	61	4.32	81	9.21	
2107	Dcakd	2.13	263	27.79	366	59.13	
2108	Dcaf4	2.13	48	3.45	68	7.34	
2109	Emc4	2.13	81	14.71	129	31.3	
2110	Vars2	2.13	60	3.27	89	6.95	
2111	Eif3h_1	2.13	66	46.15	97	98.14	
2112	Fkbp4	2.13	340	29.34	486	62.36	
2113	Ifnar2	2.12	168	14.53	213	30.87	
2114	Nfkbie	2.12	13	2.02	19	4.29	
2115	Panx2	2.12	18	1.11	33	2.36	
2116	Rad54l	2.12	21	1.16	29	2.46	
2117	RGD1565498	2.12	31	1.98	41	4.21	
2118	Sirpa	2.12	16	0.8	22	1.71	
2119	Zfp524	2.12	13	3.09	19	6.56	
2120	Spin2a	2.12	16	4.47	12	9.48	
2121	Accs	2.12	27	2.78	44	5.88	
2122	Pc	2.12	32	1.33	39	2.82	
2123	Six5	2.12	50	5.53	70	11.72	
2124	Tap2_2	2.12	1	2.17	1	4.61	
2125	Pcyt1a	2.12	884	47.69	1277	101.04	
2126	Fzd3	2.12	54	3.17	74	6.72	
2127	Top3a	2.12	67	3.66	99	7.75	
2128	Add3	2.12	184	9.54	284	20.2	
2129	Akr1c14	2.12	2472	256.22	3577	542.17	
2130	Zbed3	2.12	59	7.85	87	16.6	
2131	Churc1	2.11	70	17.46	90	36.9	
2132	LOC257650	2.11	81	1.43	79	3.03	
2133	Rnf170	2.11	35	5.6	42	11.85	
2134	Taz	2.11	76	9.21	120	19.47	
2135	Arhgef9	2.11	51	1.03	55	2.17	
2136	Ephb3	2.11	12	0.68	23	1.45	
2137	Map7	2.11	72	2.66	140	5.63	
2138	Mthfr	2.11	101	6.15	140	12.99	
2139	Ybx1-ps3	2.11	7	10.64	12	22.46	
2140	Pced1a	2.11	58	4.23	69	8.93	
2141	Gdpd1	2.11	72	5.68	92	11.97	
2142	RGD1565685	2.11	58	5.94	76	12.52	
2143	Wdr62_1	2.11	1	1.04	2	2.19	
2144	Abcb6	2.1	37	2.5	49	5.26	
2145	Lrrc75a	2.1	41	9.3	58	19.57	
2146	Tmem41a	2.1	34	4.57	46	9.62	
2147	Zfp161	2.1	51	3.24	71	6.81	
2148	LOC102551660	2.1	72	5.27	99	11.08	
2149	Yipf6	2.1	120	6.75	176	14.17	
2150	Ganc	2.1	40	1.4	66	2.93	
2151	Mrpl1	2.1	0	2.02	1	4.24	
2152	Ogg1	2.1	18	2.96	33	6.21	
2153	Podxl	2.1	11	0.39	18	0.82	
2154	Tas1r2	2.1	116	1.49	106	3.13	
2155	Wdr91	2.1	51	2.6	63	5.47	
2156	Znrd1as1	2.1	15	0.79	14	1.66	

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	A	B	C	D	E	F	G
2157	AABR07004894.1	2.1	0	3.87	1	8.13	
2158	Adgrv1	2.1	20	0.1	33	0.2	
2159	Arrdc2	2.1	16	0.97	16	2.03	
2160	Tmem241	2.1	33	1.94	51	4.08	
2161	Vamp2	2.1	179	18.08	241	37.92	
2162	Msi1	2.09	44	2.93	63	6.13	
2163	Lrrc8d	2.09	250	18.68	346	39.11	
2164	Naa40	2.09	108	5.71	137	11.94	
2165	Traf3	2.09	187	6.06	321	12.65	
2166	Vkorc1l1_2	2.09	0	3.87	1	8.08	
2167	Hagh	2.09	39	6.73	54	14.07	
2168	Slc25a20	2.09	140	16.45	197	34.33	
2169	Paox	2.08	39	3.59	55	7.49	
2170	RGD1305089	2.08	47	3.2	67	6.67	
2171	Zfp18	2.08	44	4.47	52	9.32	
2172	Acvr1b	2.08	95	3.7	120	7.7	
2173	Zfp553	2.08	74	8.5	104	17.69	
2174	Arhgef28	2.08	447	10.82	740	22.5	
2175	Mlst8	2.08	79	6.92	100	14.38	
2176	AABR07058124.3	2.08	13	11.18	20	23.21	
2177	LOC100912512	2.08	13	0.65	12	1.35	
2178	Klhl14	2.08	22	0.43	18	0.89	
2179	LOC102546354	2.08	9	1.12	26	2.32	
2180	LOC102555083	2.08	0	1.09	0	2.26	
2181	Ppm1h	2.08	52	0.72	60	1.5	
2182	Smyd4	2.08	24	1.02	30	2.11	
2183	Zfp617	2.08	15	2.35	20	4.88	
2184	Tmem9	2.07	220	29.4	292	60.96	
2185	Slc48a1	2.07	74	10.93	107	22.66	
2186	Scaper	2.07	118	2.22	247	4.6	
2187	LOC102723236_1	2.07	0	39.04	0	80.86	
2188	Triobp	2.07	77	2.68	104	5.54	
2189	Cpt2	2.07	87	8.61	120	17.79	
2190	Fam63a	2.06	126	14.63	176	30.19	
2191	Pik3r4	2.06	170	7.31	222	15.06	
2192	Wdr6	2.06	556	31.43	807	64.76	
2193	Nr2f2	2.06	148	10.79	183	22.22	
2194	Polr2c	2.06	121	22.07	167	45.45	
2195	Rpgr	2.06	30	1.12	38	2.31	
2196	Chrm4	2.06	28	2.17	39	4.47	
2197	Hps4	2.06	69	4.12	102	8.47	
2198	Letm2	2.06	32	1.74	56	3.58	
2199	Mum1l1	2.06	24	1.47	35	3.02	
2200	Renbp	2.06	22	2.31	24	4.76	
2201	Runx2	2.06	38	0.53	61	1.09	
2202	Sytl4	2.06	19	1.24	26	2.54	
2203	Tmem203	2.06	12	3.61	17	7.42	
2204	Tstd3	2.06	13	1.87	17	3.86	
2205	Pcmt2	2.06	146	7.09	201	14.6	
2206	Hyal2	2.06	177	21.35	242	43.9	
2207	Samd8	2.06	268	8.93	365	18.35	
2208	Dolk	2.06	81	10.02	116	20.6	
2209	Man2a1	2.05	1228	39.01	1752	80.15	
2210	Etv1	2.05	74	2.09	89	4.3	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2211	Iba57	2.05	41	1.84	57	3.78	
2212	Yipf1	2.05	138	14.55	183	29.86	
2213	Brms1l	2.05	0	1.28	0	2.62	
2214	Elmod3	2.05	39	1.6	55	3.28	
2215	Ifnlr1	2.05	26	1.07	31	2.2	
2216	Pcdhga8	2.05	16	1.75	22	3.58	
2217	RGD1560755	2.05	39	4.5	55	9.23	
2218	Bmp2	2.05	391	27.62	557	56.57	
2219	Ehd3	2.05	21	2.11	34	4.32	
2220	Snrpn	2.05	4	4.66	5	9.53	
2221	Gtf2a1	2.04	218	9.13	308	18.66	
2222	Katnal1_1	2.04	0	4.51	1	9.22	
2223	Rhbdf2	2.04	50	2.62	63	5.36	
2224	Cog8	2.04	81	7.77	108	15.84	
2225	Dennd4b	2.04	103	4.32	135	8.8	
2226	Tmub1	2.03	28	4.37	37	8.89	
2227	AABR07000410.1	2.03	5	0.34	5	0.68	
2228	AABR07001899.1	2.03	87	0.39	120	0.79	
2229	Abcg2	2.03	14	0.91	15	1.85	
2230	Adgrb2	2.03	12	0.49	18	1	
2231	Atn1	2.03	0	0.35	0	0.71	
2232	Camk2n1	2.03	7	3.05	7	6.2	
2233	Chd1l	2.03	41	2.76	56	5.61	
2234	Clip4	2.03	14	0.48	24	0.97	
2235	Dcp2_3	2.03	0	0.96	0	1.95	
2236	Fam25a	2.03	7	3.11	9	6.34	
2237	Fmnl1	2.03	11	0.64	13	1.31	
2238	LOC100911365	2.03	0	1.42	0	2.88	
2239	Lppr5	2.03	15	0.44	17	0.9	
2240	Mmp17	2.03	5	0.36	8	0.72	
2241	Mrgbp	2.03	0	4.05	0	8.24	
2242	Pfn2	2.03	22	5.76	23	11.71	
2243	Phospho1	2.03	6	0.62	7	1.27	
2244	Rab36	2.03	18	1	34	2.03	
2245	Ror1	2.03	14	0.24	11	0.49	
2246	Ror2	2.03	27	1.26	51	2.57	
2247	Scn1a	2.03	11	0.1	8	0.21	
2248	Senp8	2.03	35	2.54	36	5.16	
2249	Slc6a4	2.03	5	0.38	14	0.77	
2250	Slmo1	2.03	24	0.95	24	1.94	
2251	Soga3	2.03	13	0.44	18	0.89	
2252	Tmco3	2.03	9	2.28	10	4.63	
2253	Tmem117	2.03	15	0.56	19	1.14	
2254	Tmem177	2.03	16	2.59	21	5.26	
2255	Ttc27	2.03	129	8.36	177	17.01	
2256	Vwa5b2	2.03	10	0.28	12	0.56	
2257	Zfp788	2.03	20	1.8	28	3.67	
2258	Zswim7	2.03	21	1.78	32	3.62	
2259	Apobr	2.03	5	0.29	7	0.59	
2260	Ptges3l1	2.03	10	0.78	7	1.58	
2261	Hacd2	2.03	236	27.03	307	54.9	
2262	Ctdspl	2.03	88	4.27	113	8.68	
2263	Ahi1	2.03	82	5	115	10.14	
2264	Samd11	2.03	137	15.11	178	30.66	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2265	Baiap2	2.03	107	5.74	153	11.65	
2266	LOC100910275	2.03	7	10.47	9	21.24	
2267	Armc7	2.03	105	4	130	8.1	
2268	Brca2	2.03	49	0.92	64	1.86	
2269	Mrpl44	2.03	36	5.33	47	10.8	
2270	Angel1	2.02	31	1.55	46	3.13	
2271	Sclt1	2.02	128	2.82	117	5.71	
2272	Iffo1	2.02	118	4.83	151	9.77	
2273	Them4	2.02	25	2.03	37	4.11	
2274	Rnf213	2.02	274	4.01	392	8.11	
2275	Pccb	2.02	129	14.18	180	28.63	
2276	Snx33	2.02	293	17.35	393	35.02	
2277	Clk4	2.02	91	6.46	104	13.03	
2278	Osgep	2.02	20	3.19	33	6.45	
2279	Zfp266	2.02	675	25.62	922	51.7	
2280	Chchd10	2.02	140	30.87	195	62.28	
2281	AABR07012047.1	2.02	34	2.3	47	4.63	
2282	Hbp1	2.01	321	23.86	481	48.04	
2283	RGD1306151	2.01	72	4.18	101	8.43	
2284	Ago4	2.01	18	0.87	30	1.74	
2285	Cxxc4	2.01	22	0.6	25	1.21	
2286	Fam117b	2.01	254	10.07	343	20.27	
2287	Plxnd1	2.01	51	1.59	65	3.2	
2288	Pnpo	2.01	13	1.58	21	3.18	
2289	RGD1311517	2.01	21	1.85	39	3.72	
2290	Rmdn1	2.01	56	1.6	69	3.22	
2291	Proser3	2.01	81	4.6	100	9.26	
2292	Sema4d	2.01	78	2.83	90	5.69	
2293	Scpep1	2.01	151	16.81	222	33.76	
2294	Glb1	2.01	399	25.4	498	51.01	
2295	Casp6	2.01	9	5.23	10	10.5	
2296	Cdkn2aipnl	2.01	166	23.08	237	46.35	
2297	Fam171a2	2.01	73	5.55	85	11.15	
2298	B4galt4	2.01	28	2.45	44	4.91	
2299	Cped1	2.01	151	4.13	212	8.29	
2300	Insig2	2.01	34	5.28	45	10.6	
2301	Ctps2	2.01	220	13.4	290	26.89	
2302	Sspn	2	90	5.54	113	11.11	
2303	Akap17b	2	47	1.4	60	2.8	
2304	LOC102552166	2	12	2.23	25	4.47	
2305	Fbxo22	2	60	8.98	69	17.98	
2306	Twf2	2	43	5.83	58	11.67	
2307	Mpnd	2	127	13.22	159	26.48	
2308	Ifi35	2	54	10.47	67	20.96	
2309	Wnt4	2	211	8.39	292	16.79	
2310	Tapbp	2	161	22.48	208	44.94	
2311	Ccdc142	2	0	0.92	0	1.84	
2312	Immp1l	2	30	3.16	42	6.32	
2313	Nudt1	2	9	2.31	15	4.62	
2314	AABR07001910.1	2	8	0.76	11	1.51	
2315	Dcaf8	2	377	17.14	470	34.25	
2316	Hemk1	2	10	1.14	18	2.27	
2317	LOC100910017	2	0	4.65	0	9.28	
2318	Med18	2	30	6.39	28	12.77	

Supplemental Table 2
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	A	B	C	D	E	F	G
2319	Naif1	2	16	1.31	23	2.62	
2320	RGD1305420	2	8	0.53	11	1.06	
2321	Rpl35a_1	2	0	5.73	0	11.44	
2322	Vamp5	2	17	13.03	26	26.03	
2323	Wars2	2	41	2.02	37	4.03	
2324	Fam3a	2	127	12.04	161	24.04	
2325	Fam134a	2	160	14.18	222	28.3	
2326	LOC100910957	1.99	24	3.39	38	6.75	Genes not regulated by FSH
2327	Zmym6	1.99	79	2.49	102	4.95	
2328	Gpx4	1.99	235	74.6	381	148.45	
2329	Mut	1.99	47	3.35	74	6.67	
2330	Nfkbib	1.99	29	3.39	28	6.73	
2331	Pex5	1.99	0	2.39	0	4.75	
2332	Fam110b	1.99	30	4.57	41	9.08	
2333	Isoc2b	1.99	53	7.16	81	14.22	
2334	Qsox2	1.99	232	11.29	302	22.42	
2335	Tpra1	1.99	134	13.44	169	26.7	
2336	Kctd1	1.99	116	4.36	150	8.65	
2337	Zranb3	1.98	275	9.05	401	17.94	
2338	LOC100361537	1.98	154	18.1	201	35.88	
2339	Capn5	1.98	155	7.2	201	14.28	
2340	Gpc2	1.98	17	1.05	27	2.08	
2341	AABR07050391.2	1.98	0	4.55	0	9.01	
2342	Ethe1	1.98	62	10.68	77	21.15	
2343	LOC100910370	1.98	0	7.08	0	14.03	
2344	Psmb10	1.98	56	13.76	77	27.26	
2345	AABR07054189.1	1.98	3	5.02	4	9.95	
2346	LOC361346	1.98	98	4.84	125	9.58	
2347	Taf9b	1.98	12	0.83	18	1.64	
2348	Rnf130	1.98	121	16.31	138	32.33	
2349	Trim24	1.98	188	7.69	250	15.23	
2350	RT1-CE16	1.98	21	10.75	26	21.28	
2351	Rpl18a	1.98	1975	760.29	2706	1504.06	
2352	Tsen34_1	1.98	0	9.55	0	18.89	
2353	Stk11ip	1.98	126	5.96	163	11.79	
2354	Chchd5	1.98	31	4.13	36	8.15	
2355	Zfp36l1	1.98	145	12.7	196	25.08	
2356	Reep3	1.98	299	12.96	404	25.61	
2357	Mboat2	1.97	76	3.42	93	6.76	
2358	Trappc1	1.97	86	21.57	115	42.6	
2359	RGD1310127	1.97	63	8.98	84	17.73	
2360	Kcnk2	1.97	54	2.88	89	5.67	
2361	Tdrkh	1.97	15	1.13	20	2.23	
2362	Zbtb9	1.97	42	3.75	57	7.41	
2363	Smcr8	1.97	130	8.34	169	16.43	
2364	Ankrd10	1.97	359	15.17	373	29.88	
2365	RGD1302996	1.97	28	5.68	36	11.18	
2366	Parp11	1.97	80	4.53	83	8.91	
2367	Trim23	1.97	57	3.54	86	6.98	
2368	Mthfs	1.97	29	1.54	29	3.03	
2369	Osbpl1a	1.97	108	5.58	158	10.96	
2370	Zfp229	1.97	20	1.85	24	3.65	
2371	Lrp8	1.97	479	12.78	598	25.13	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2372	Coasy	1.96	65	6.63	100	13.03	
2373	Clasp2	1.96	417	13.64	584	26.79	
2374	St3gal4	1.96	1888	179.1	2552	351.69	
2375	Lmbr1l	1.96	153	10.68	189	20.94	
2376	Msh3	1.96	65	2.6	95	5.1	
2377	Sppl3	1.96	465	27.41	537	53.73	
2378	Atp1a1	1.96	1235	83.53	1664	163.71	
2379	Xylt2	1.96	131	8.09	154	15.85	
2380	Zfp629	1.96	549	6.14	577	12.03	
2381	Ypel3	1.96	34	6.08	38	11.9	
2382	Zfp94_1	1.96	169	10.28	224	20.12	
2383	Tango2	1.96	149	7.66	180	15	
2384	Nxn	1.96	161	13.87	167	27.15	
2385	Ccp1	1.96	138	7.72	174	15.1	
2386	Fastkd3	1.96	42	2.87	49	5.6	
2387	Slc9a1	1.95	181	6.22	221	12.17	
2388	Klc4	1.95	75	5.43	89	10.62	
2389	Bivm	1.95	59	4.79	70	9.36	
2390	Bmyc	1.95	29	9.51	39	18.58	
2391	Adprh	1.95	97	14.74	130	28.8	
2392	Trappc12	1.95	136	8.76	169	17.1	
2393	Hs2st1	1.95	173	8.29	213	16.19	
2394	Asb7	1.95	97	3.72	115	7.25	
2395	Dmap1	1.95	44	6.05	53	11.81	
2396	Pknox2	1.95	314	13.71	436	26.73	
2397	Chst14	1.95	85	10.29	114	20.06	
2398	Spint2	1.95	378	57.29	495	111.58	
2399	Dnajc16	1.95	66	5.04	84	9.8	
2400	Tvp23b	1.94	67	9.8	97	19.07	
2401	Orc3	1.94	135	6.75	157	13.13	
2402	Mxi1	1.94	108	6.01	117	11.68	
2403	Adgrl1	1.94	344	12.11	422	23.51	
2404	Sec14l1	1.94	431	21.48	572	41.66	
2405	Cluh	1.94	482	25.51	614	49.46	
2406	AABR07070810.1	1.94	0	1.5	0	2.91	
2407	AC103179.2	1.94	6	0.63	8	1.21	
2408	AC129162.1	1.94	11	1.38	27	2.67	
2409	Asic1	1.94	3	0.18	3	0.34	
2410	Cd93	1.94	3	0.16	4	0.3	
2411	Grhpr	1.94	15	2.38	28	4.61	
2412	Hivep3	1.94	3	0.07	6	0.13	
2413	LOC360479	1.94	6	0.27	11	0.53	
2414	Nfkbid	1.94	6	0.82	8	1.59	
2415	6720489N17Rik	1.94	16	9.49	18	18.39	
2416	AABR07010468.1	1.94	8	1.07	22	2.07	
2417	AABR07032751.1	1.94	7	3.08	18	5.96	
2418	AABR07053136.1	1.94	3	2.37	4	4.6	
2419	AC098462.2	1.94	0	1.2	0	2.32	
2420	AC113925.2	1.94	1	1.2	1	2.32	
2421	Armc9	1.94	157	6.88	242	13.33	
2422	Atxn7l2	1.94	35	3.11	50	6.02	
2423	Chst3	1.94	3	0.13	4	0.26	
2424	Dapp1	1.94	11	0.49	10	0.95	
2425	Enox2	1.94	8	0.25	12	0.49	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2426	ENSRNOG00000042	1.94	5	0.49	5	0.96	
2427	Fahd1	1.94	21	3.64	28	7.05	
2428	Gramd1c_2	1.94	2	0.79	3	1.53	
2429	Gyltl1b	1.94	19	1.56	21	3.02	
2430	LOC100910729	1.94	2	0.28	4	0.55	
2431	LOC100911374	1.94	0	0.65	1	1.26	
2432	LOC102550734	1.94	0	1.99	0	3.86	
2433	Maf	1.94	3	0.38	4	0.74	
2434	Mbp	1.94	18	0.22	13	0.43	
2435	Mdfi	1.94	6	0.46	4	0.9	
2436	MGC116202	1.94	13	0.76	12	1.46	
2437	Mrpl34	1.94	28	11.78	36	22.83	
2438	Nudt6	1.94	12	0.7	15	1.36	
2439	Pigu	1.94	194	9.8	233	18.99	
2440	Plcx3	1.94	12	0.4	15	0.77	
2441	Plod1	1.94	68	5.32	89	10.31	
2442	RGD1564171	1.94	13	2.35	17	4.55	
2443	Scube3	1.94	23	0.25	28	0.49	
2444	Serp2	1.94	19	0.77	13	1.48	
2445	Six4	1.94	35	1.38	49	2.67	
2446	Slc16a3	1.94	8	0.35	8	0.68	
2447	Slc35e1	1.94	91	15.19	109	29.44	
2448	Slc6a17	1.94	5	0.12	6	0.24	
2449	Slfn2	1.94	6	0.84	13	1.63	
2450	SNORD89	1.94	6	13	8	25.19	
2451	Vamp7	1.94	62	12.85	79	24.89	
2452	Zfp575	1.94	3	0.66	4	1.27	
2453	AABR07054968.1	1.94	0	0.51	0	0.99	
2454	AC131360.1	1.94	3	0.4	5	0.78	
2455	Acy3	1.94	37	5.06	42	9.81	
2456	Cacna1c	1.94	9	0.09	8	0.18	
2457	Dyx1c1	1.94	8	0.37	8	0.73	
2458	Erc5	1.94	72	3.11	98	6.02	
2459	Fam151b	1.94	28	1.64	36	3.18	
2460	Fam221a	1.94	19	0.99	20	1.93	
2461	Gpr108	1.94	110	13.06	147	25.31	
2462	Klhdc4_2	1.94	3	2.33	4	4.51	
2463	LOC102547118	1.94	3	0.43	5	0.83	
2464	Lrpap1	1.94	335	26.46	450	51.27	
2465	Lrrc39	1.94	6	0.26	3	0.5	
2466	Map10	1.94	3	0.27	4	0.52	
2467	Myh7b	1.94	10	0.12	8	0.24	
2468	Pcdhb2	1.94	3	0.31	4	0.6	
2469	Pcdhga1	1.94	6	0.62	8	1.2	
2470	RGD1309779	1.94	2	1.21	1	2.34	
2471	Rn60_20_0046.5	1.94	3	1.17	4	2.27	
2472	Rom1	1.94	3	0.48	4	0.94	
2473	Sec22a	1.94	77	5.49	80	10.63	
2474	Tap1	1.94	38	2.49	51	4.82	
2475	Zfp563	1.94	9	1.67	12	3.23	
2476	Zfp599	1.94	34	0.31	32	0.6	
2477	Tmem159	1.93	183	19.35	205	37.4	
2478	Tpst1	1.93	85	8.62	115	16.64	
2479	Fam127b	1.93	123	25.18	166	48.59	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2480	Pla2g16	1.93	60	17.78	88	34.29	
2481	Fbxw4	1.93	132	7.11	148	13.71	
2482	Ifitm2	1.93	242	92.07	314	177.48	
2483	Kcne2	1.93	180	19.16	229	36.9	
2484	Laptm4b	1.93	504	58.48	634	112.64	
2485	Senp7	1.92	129	3.93	167	7.57	
2486	Marf1	1.92	0	5.56	0	10.69	
2487	Susd4	1.92	55	2.87	82	5.51	
2488	Idua	1.92	226	19.4	306	37.3	
2489	Osbpl9	1.92	273	17.81	347	34.23	
2490	Tmem69	1.92	32	3.98	42	7.64	
2491	Fgfr1	1.92	335	20.29	408	38.89	
2492	AABR07027910.1	1.92	22	2.88	29	5.51	
2493	Elac2	1.91	115	9.13	158	17.49	
2494	Bex2	1.91	40	13.18	52	25.23	
2495	Bcap29	1.91	45	5.52	58	10.55	
2496	Fam173b	1.91	38	3.44	60	6.57	
2497	Hint2	1.91	48	16.16	61	30.89	
2498	Pex14	1.91	120	9.56	149	18.27	
2499	Crtap	1.91	129	21.4	184	40.89	
2500	Dhfr	1.91	38	1.86	52	3.56	
2501	Adgra3	1.91	224	11.41	297	21.78	
2502	Ypel5	1.91	191	15.45	248	29.47	
2503	Tprn	1.91	24	1.46	24	2.78	
2504	C1galt1c1	1.91	53	9.11	71	17.37	
2505	RGD1565222	1.91	23	1.36	37	2.59	
2506	Acad8	1.91	46	3.23	61	6.15	
2507	Capn10	1.91	108	8.78	129	16.75	
2508	Zfp866_1	1.9	29	4.64	38	8.84	
2509	Ccn1	1.9	368	22.75	541	43.32	
2510	Rmnd5b_2	1.9	2	13.24	1	25.21	
2511	AC127920.1	1.9	19	9.32	16	17.73	
2512	Fam35a	1.9	62	1.92	54	3.64	
2513	Id4	1.9	16	1.99	17	3.79	
2514	Abca16	1.9	49	0.65	54	1.24	
2515	Pdik1l	1.9	51	2.16	58	4.11	
2516	RGD1310429	1.9	23	2.75	29	5.22	
2517	Spata2	1.9	70	5.43	77	10.31	
2518	Tmem17	1.9	26	2.89	36	5.5	
2519	Med25	1.9	278	26.13	358	49.63	
2520	Anp32e	1.9	324	22.62	391	42.91	
2521	RGD1311739	1.9	60	5.94	71	11.27	
2522	Mxd4	1.9	266	13.69	326	25.96	
2523	Dars2	1.9	28	2.51	41	4.76	
2524	Tmem38a	1.9	28	2.65	35	5.02	
2525	Nipsnap1	1.9	120	9.13	170	17.3	
2526	Igfbp5	1.9	3923	165.83	5094	314.29	
2527	Galnt11	1.89	148	9.53	165	18.06	
2528	Asf1a	1.89	16	2.95	24	5.59	
2529	Vipas39	1.89	144	11.45	196	21.68	
2530	Sdf4	1.89	370	53.47	469	101.17	
2531	Bcl11a	1.89	139	4.09	205	7.74	
2532	AABR07035428.1	1.89	119	3.49	92	6.6	
2533	Mtrf1	1.89	26	1.28	24	2.42	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2534	Sts	1.89	10	0.97	15	1.82	
2535	Cars2	1.89	69	2.76	77	5.22	
2536	Mterfd2	1.89	36	5.75	42	10.87	
2537	Parg	1.89	143	5.64	182	10.66	
2538	Pgap3	1.89	24	2.06	30	3.9	
2539	Ppap2c	1.89	26	3.1	33	5.85	
2540	Adarb1	1.89	58	1.49	73	2.82	
2541	Igsf8	1.89	52	5.73	69	10.82	
2542	Sfi1	1.89	75	2.1	100	3.96	
2543	AY172581.24	1.89	5950	962.72	7703	1818.41	
2544	Sall2	1.89	110	4.71	138	8.88	
2545	Isca1	1.89	166	19.37	202	36.56	
2546	Apex1	1.89	116	22.28	151	42.03	
2547	Prr15	1.89	117	20.07	151	37.87	
2548	Reck	1.89	126	6.16	161	11.61	
2549	Fbxl6	1.89	58	6.15	68	11.6	
2550	Ppt1	1.89	109	16.38	134	30.88	
2551	Coa7	1.88	40	2.42	41	4.56	
2552	Hist1h2bg	1.88	9	7.09	16	13.35	
2553	AY172581.9	1.88	1608	422.91	2074	796.32	
2554	Slc25a12	1.88	133	9.73	157	18.3	
2555	LOC100362658	1.88	18	1.6	24	3	
2556	Ubox5	1.88	92	3.47	92	6.53	
2557	Zfp39	1.88	1609	1.03	584	1.94	
2558	AABR07016056.1	1.88	9	10.58	12	19.9	
2559	Ccdc92	1.88	21	2.17	25	4.08	
2560	Npr2	1.88	270	14.63	318	27.51	
2561	Kat2a	1.88	126	9.45	163	17.75	
2562	Atp6v0e2	1.88	90	25.73	119	48.3	
2563	Tmem229b	1.88	31	1.59	33	2.98	
2564	Lrp3	1.88	22	1.54	38	2.88	
2565	RGD1563349	1.88	119	7.46	136	13.98	
2566	Mpdu1	1.87	30	12.1	43	22.68	
2567	Pcyox1	1.87	371	41.19	473	77.22	
2568	Ift80	1.87	55	2.4	71	4.49	
2569	Mt2A	1.87	23	38.48	26	72.03	
2570	Rassf4	1.87	92	8.99	125	16.81	
2571	Npc1	1.87	192	9.41	244	17.61	
2572	AABR07036732.1	1.87	11	0.3	12	0.56	
2573	Ppp1r35	1.87	0	1.47	0	2.74	
2574	Adam22	1.87	11	0.75	21	1.4	
2575	B9d1	1.87	0	2.24	0	4.19	
2576	Casq1	1.87	10	0.95	18	1.77	
2577	Ccdc157	1.87	26	1.18	35	2.21	
2578	Ccdc17	1.87	12	0.79	14	1.48	
2579	Fam169a	1.87	36	1.75	22	3.27	
2580	LOC100910531	1.87	20	0.66	24	1.22	
2581	Ncoa7	1.87	107	4.19	157	7.82	
2582	Ogfod2	1.87	20	2.12	19	3.96	
2583	Pcdh17	1.87	13	0.37	11	0.7	
2584	Phf19	1.87	15	0.92	19	1.72	
2585	Rn60_X_0652.2	1.87	7	2.64	9	4.93	
2586	Swsap1	1.87	14	1.5	18	2.8	
2587	Wdr83	1.87	29	4.44	36	8.29	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2588	Zfp867	1.87	8	1.27	9	2.37	
2589	Zfp954	1.87	14	1.77	19	3.3	
2590	Cntf	1.87	9	1.59	11	2.98	
2591	Csf2ra	1.87	11	1.25	12	2.34	
2592	Kiz	1.87	26	0.74	42	1.39	
2593	Wdr41	1.87	55	3.39	62	6.34	
2594	Smad3	1.87	610	22.41	711	41.84	
2595	Fam49b	1.86	266	29.12	334	54.29	
2596	Ppp2r3b	1.86	62	5.03	70	9.37	
2597	Zfp955a	1.86	39	2.37	50	4.42	
2598	Ly6e	1.86	304	35.21	386	65.57	
2599	Cul9	1.86	130	3.07	163	5.72	
2600	Letmd1	1.86	87	5.81	88	10.82	
2601	Mavs	1.86	73	5.3	103	9.87	
2602	Tln2	1.86	41	1.01	65	1.88	
2603	Cul7	1.86	133	8.52	159	15.85	
2604	Impdh1	1.86	206	18.19	271	33.86	
2605	Tbc1d31	1.86	49	1.67	47	3.11	
2606	AABR07035273.1	1.86	29	1.16	45	2.15	
2607	Ldb1	1.86	481	41.68	577	77.53	
2608	Hsdl2	1.86	54	5.34	70	9.92	
2609	AC118147.2	1.86	29	1.09	30	2.02	
2610	Hmgn3	1.86	48	3.2	43	5.94	
2611	Oma1	1.86	23	2.44	35	4.53	
2612	Thap3	1.86	39	3.74	40	6.95	
2613	LOC100910472	1.86	9	4.15	10	7.71	
2614	Ccni	1.85	608	51.96	752	96.38	
2615	Tcf4	1.85	327	11.16	413	20.71	
2616	Pnkd	1.85	85	4.91	112	9.1	
2617	AABR07002768.1	1.85	22	2.32	30	4.3	
2618	Hps3	1.85	29	1.86	40	3.44	
2619	Loh12cr1	1.85	58	3.98	54	7.37	
2620	Bace2	1.85	219	21.97	310	40.73	
2621	Klhl25	1.85	76	5.25	103	9.73	
2622	Ak1	1.85	82	9.96	113	18.44	
2623	Tecr	1.85	480	135.02	705	249.73	
2624	AABR07071814.2	1.85	11	1.95	14	3.6	
2625	Glyctk	1.85	13	1.39	16	2.57	
2626	Gtpbp10	1.85	19	1.66	21	3.07	
2627	Mmaa	1.85	18	0.94	25	1.74	
2628	SNORD49_2	1.85	22	76.13	28	140.8	
2629	AC117925.4	1.85	0	2.54	0	4.71	
2630	Fmo5	1.85	44	3.67	54	6.79	
2631	Rabggta	1.85	95	6.99	105	12.93	
2632	Zbtb26	1.85	60	2.47	47	4.57	
2633	Hey2	1.85	12	1.03	14	1.9	
2634	Nt5c3a	1.85	80	5.44	88	10.06	
2635	Thumpd2	1.85	84	4.11	94	7.6	
2636	Zbtb6	1.85	34	3.41	42	6.31	
2637	Pqlc1	1.85	360	37.85	420	69.96	
2638	Ikbkb	1.85	139	5.2	130	9.59	
2639	Entpd6	1.85	46	3.69	56	6.81	
2640	Plscr3	1.84	149	20.12	180	37.12	
2641	Cab39l	1.84	130	6.6	160	12.18	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2642	Med9	1.84	50	3.44	50	6.35	
2643	Bcl6	1.84	111	6.84	139	12.61	
2644	Top1	1.84	255	28.65	396	52.81	
2645	Ppif	1.84	51	6.9	65	12.71	
2646	Itgb5	1.84	688	60.93	769	112.28	
2647	Ing4	1.84	161	20.54	184	37.82	
2648	Zfp874b	1.84	29	2.34	38	4.3	
2649	AABR07002008.1	1.84	15	1.48	20	2.72	
2650	Lgr4	1.84	168	9.61	212	17.69	
2651	LOC681282	1.84	20	5.59	23	10.28	
2652	Mlh3	1.84	44	1.36	50	2.5	
2653	RGD1563941	1.84	15	2.45	19	4.51	
2654	Btbd1	1.84	330	19.33	358	35.56	
2655	LOC100360679	1.84	37	255.6	40	469.62	
2656	Sorbs3	1.84	187	16.02	244	29.42	
2657	AABR07012475.2	1.84	16	1.44	22	2.65	
2658	Dennd6b	1.84	32	1.78	37	3.26	
2659	Fam58b	1.84	19	4.07	24	7.47	
2660	RGD1307830	1.84	23	3.52	34	6.47	
2661	Slc35a5	1.84	69	6.83	94	12.54	
2662	Snx14	1.83	120	7.08	148	13	
2663	RT1-A2	1.83	43	11.93	51	21.88	
2664	Glrx5	1.83	80	7.07	84	12.97	
2665	Cdk2ap2	1.83	60	14.49	78	26.58	
2666	Wbp11_2	1.83	0	4.22	0	7.73	
2667	Cant1	1.83	140	12.13	169	22.24	
2668	Urod	1.83	69	12.09	87	22.16	
2669	Mief2	1.83	49	6.09	62	11.16	
2670	Cenpv	1.83	52	7.61	91	13.94	
2671	Arsa	1.83	129	8.48	159	15.53	
2672	Igsf3	1.83	167	5.08	204	9.3	
2673	Elac1	1.83	39	2.37	52	4.34	
2674	MGC94199_2	1.83	0	3.34	0	6.1	
2675	Limk2	1.83	84	3.36	107	6.15	
2676	Trrap	1.83	1218	22.08	1520	40.35	
2677	Fbxl17	1.83	189	8.63	238	15.76	
2678	Slc35e2b	1.83	84	4.05	68	7.39	
2679	LOC100361515	1.83	134	10.83	159	19.76	
2680	Tor2a	1.83	86	13.68	106	24.98	
2681	Mkln1	1.82	151	9.73	189	17.76	
2682	Vangl2	1.82	48	2.56	59	4.68	
2683	Tmem110	1.82	77	7.29	85	13.3	
2684	Zbtb45	1.82	66	7.14	82	13.02	
2685	Nvl	1.82	104	4.56	138	8.3	
2686	Aph1a	1.82	282	32.81	342	59.72	
2687	St6galnac6	1.82	132	11.52	148	20.97	
2688	LOC685186	1.82	95	427.72	208	778.1	
2689	Adamts2	1.82	1773	52.7	2026	95.79	
2690	AABR07014855.1	1.82	3	1.54	4	2.8	
2691	AABR07029056.1	1.82	0	4.22	0	7.67	
2692	AABR07060610.1	1.82	0	2.04	0	3.7	
2693	Cryz	1.82	29	2.62	36	4.76	
2694	Garnl3	1.82	42	0.64	22	1.16	
2695	Hmg1l1_1	1.82	1	1.58	3	2.87	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2696	Phf21a	1.82	298	11.32	319	20.56	
2697	Pih1d1	1.82	22	3.88	27	7.06	
2698	Rab13	1.82	27	5.61	35	10.19	
2699	Rarres2	1.82	3	1.47	5	2.67	
2700	Rsph3	1.82	15	0.55	27	0.99	
2701	Sfxn4	1.82	21	0.75	24	1.37	
2702	Tefm	1.82	18	2.65	25	4.81	
2703	Thrb	1.82	9	0.15	27	0.28	
2704	Abhd12	1.82	90	10.23	109	18.59	
2705	Acer2	1.82	9	0.19	8	0.35	
2706	Actr5	1.82	32	3.06	35	5.56	
2707	Clybl	1.82	31	2.41	49	4.38	
2708	Depdc7	1.82	12	1.17	13	2.12	
2709	Ercc4	1.82	24	3.98	35	7.23	
2710	Fam98c	1.82	19	2.36	23	4.28	
2711	Fbxw17	1.82	45	4.31	62	7.83	
2712	Gas7	1.82	6	0.37	11	0.67	
2713	Grik2	1.82	58	0.2	44	0.37	
2714	Has1	1.82	21	0.48	14	0.86	
2715	Haus1_2	1.82	0	1.27	1	2.3	
2716	Inafm1	1.82	4	0.67	5	1.22	
2717	LOC685431_2	1.82	0	0.77	0	1.39	
2718	Lrrc10b	1.82	4	0.81	5	1.47	
2719	Med30	1.82	28	5.57	33	10.12	
2720	Mlkl	1.82	19	0.95	19	1.72	
2721	N4bp2l1	1.82	8	0.47	16	0.85	
2722	Nicn1	1.82	51	5.37	60	9.75	
2723	Pcdhb8	1.82	4	0.43	4	0.77	
2724	Piwil4	1.82	11	0.63	14	1.14	
2725	Pot1	1.82	67	3.97	78	7.21	
2726	Reps2	1.82	14	1.12	24	2.03	
2727	Rgl2	1.82	109	8	130	14.52	
2728	Slmo2	1.82	86	27.12	96	49.26	
2729	Sptbn5	1.82	7	0.16	10	0.29	
2730	Tmem181	1.82	82	6.45	85	11.72	
2731	Zkscan1	1.82	129	9.53	163	17.31	
2732	Zswim5	1.82	57	1.93	55	3.5	
2733	Adcy2	1.82	29	0.62	22	1.13	
2734	Fat3	1.82	16	0.07	16	0.13	
2735	Itgae	1.82	64	0.76	84	1.37	
2736	Neil1	1.82	19	2.31	27	4.19	
2737	Nrm	1.82	10	2.44	10	4.44	
2738	Opn3	1.82	109	1.14	74	2.07	
2739	Prr22	1.82	4	0.44	5	0.8	
2740	Rabepk	1.82	53	3.8	57	6.91	
2741	RGD1566085	1.82	5	1.04	13	1.89	
2742	Slc22a18	1.82	19	1.3	18	2.36	
2743	Tfb2m	1.82	30	4.34	28	7.88	
2744	Wasf1	1.82	72	4.14	78	7.52	
2745	Naa35	1.81	249	19.37	288	35.11	
2746	Gja1	1.81	7352	573.87	9096	1040.24	
2747	Ap3m1	1.81	281	11.2	196	20.29	
2748	Aar2	1.81	139	8.02	171	14.52	
2749	Ssh3	1.81	76	5.66	87	10.25	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2750	Ano8	1.81	133	9.86	155	17.85	
2751	Rap2b	1.81	57	25.73	70	46.57	
2752	Dram2	1.81	99	8.72	114	15.78	
2753	Tcn2	1.81	158	19.29	192	34.89	
2754	Casd1	1.81	71	4.71	77	8.51	
2755	Vps51	1.81	79	8.71	98	15.74	
2756	Alg2	1.81	119	9.81	148	17.73	
2757	Pip5k1c	1.81	137	6.63	157	11.98	
2758	Fbxo21	1.81	91	19.83	130	35.82	
2759	Slc25a15	1.81	36	2.41	46	4.35	
2760	Arl6ip5	1.81	239	33.9	253	61.22	
2761	Yif1b_2	1.81	0	4.11	0	7.42	
2762	Lamb2	1.8	1366	56.02	1675	101.1	
2763	Pomt2	1.8	100	4.33	114	7.81	
2764	Dexi	1.8	180	9.64	178	17.38	
2765	Sardh	1.8	69	3.27	99	5.9	
2766	Zer1	1.8	370	18.3	432	32.99	
2767	Lrif1	1.8	37	1.92	44	3.47	
2768	Rhobtb2	1.8	29	1.19	31	2.14	
2769	Pcif1	1.8	154	7.58	168	13.66	
2770	Carf	1.8	28	1.43	39	2.57	
2771	Arrdc3	1.8	45	6.24	53	11.22	
2772	Kctd13	1.8	36	3.08	37	5.54	
2773	Lama4	1.8	83	2.64	108	4.75	
2774	Mettl10	1.8	52	4.88	65	8.78	
2775	Nav2	1.8	705	10.88	909	19.58	
2776	Acads	1.8	120	14.24	141	25.61	
2777	Dennd2a	1.8	122	4.63	166	8.32	
2778	Fgfr1	1.8	125	6.71	150	12.06	
2779	Azin2	1.8	134	7.27	126	13.07	
2780	Psme2	1.8	24	29.05	22	52.23	
2781	Galns	1.8	113	4.57	146	8.2	
2782	Alkbh8	1.8	110	3.28	91	5.88	
2783	Capg	1.8	19	2.87	22	5.15	
2784	LOC499602	1.8	39	1.29	46	2.32	
2785	Ppapdc3	1.8	23	2.16	37	3.87	
2786	Fam160b2	1.79	159	8.64	189	15.51	
2787	Pnpla6	1.79	164	7.44	199	13.33	
2788	Il17rc	1.79	51	3.19	51	5.72	
2789	Ctc1	1.79	361	19.44	449	34.82	
2790	Prex2	1.79	183	5.36	251	9.6	
2791	Recql5	1.79	69	2.74	85	4.91	
2792	Fbxo46	1.79	89	4.78	96	8.55	
2793	Lgals3bp	1.79	131	14.17	165	25.37	
2794	RGD1311575	1.79	14	0.48	19	0.86	
2795	Zfp958	1.79	15	4.65	31	8.32	
2796	Tube1	1.79	39	1.14	40	2.04	
2797	Acp2	1.79	169	20.15	216	36.03	
2798	Znf740	1.79	172	9.48	201	16.94	
2799	Mum1	1.79	122	8.95	145	16	
2800	Klhl24	1.79	130	15.09	153	26.95	
2801	Slc39a11	1.79	100	3.73	130	6.67	
2802	Med16	1.79	57	8.46	71	15.11	
2803	Qars	1.78	327	27.99	399	49.95	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2804	Scap	1.78	277	14.56	341	25.99	
2805	Rsl24d1	1.78	114	18.21	139	32.48	
2806	Bud13	1.78	82	7.61	90	13.57	
2807	Fat4	1.78	221	4.29	252	7.65	
2808	Tdp2	1.78	84	5.51	79	9.82	
2809	Xkr8	1.78	25	2.07	28	3.69	
2810	Rhot2	1.78	124	10.41	152	18.56	
2811	Nr1d2	1.78	184	8.38	211	14.92	
2812	Eci3	1.78	186	15.61	237	27.8	
2813	Glt8d1	1.78	111	11.62	126	20.69	
2814	Mocs2	1.78	99	12.54	107	22.33	
2815	Pbxip1	1.78	430	34.24	510	60.95	
2816	Nadk	1.78	353	19.32	395	34.39	
2817	Tcp11l2	1.78	65	5.4	68	9.6	
2818	Fads2	1.78	368	58.3	422	103.64	
2819	Map7d2	1.78	25	1.06	32	1.88	
2820	Padi6	1.78	9	1.09	11	1.94	
2821	Ctnna2	1.78	12	1.57	17	2.78	
2822	LOC688765	1.78	9	1.18	11	2.1	
2823	Lrrc61	1.78	12	0.81	16	1.44	
2824	Lsm5	1.78	12	4.16	9	7.39	
2825	Zfp707	1.78	19	3.97	25	7.05	
2826	Aldh5a1	1.78	20	0.83	28	1.47	
2827	Cdc40	1.78	106	5.12	116	9.1	
2828	LOC100911224	1.78	0	1.21	0	2.16	
2829	Mbnl3	1.78	37	1.11	28	1.98	
2830	Ribc1	1.78	22	1.58	22	2.8	
2831	Robo1	1.78	107	3.18	143	5.65	
2832	SNORD27	1.78	9	30.3	11	53.82	
2833	Tpk1	1.78	54	1.35	67	2.39	
2834	U2af1l4	1.78	41	7.47	49	13.28	
2835	Zcchc10	1.78	31	2.32	20	4.12	
2836	Zfp120	1.78	9	1.82	12	3.23	
2837	Clptm1	1.78	620	57.58	737	102.23	
2838	Obsl1	1.78	559	21.98	663	39.03	
2839	Zmynd8	1.78	284	9.36	377	16.61	
2840	Uhrf1bp1l	1.77	248	11.37	293	20.17	
2841	Megf8	1.77	591	11.1	718	19.68	
2842	Disp1	1.77	194	5.4	233	9.57	
2843	Rhobtb1	1.77	419	13.05	510	23.14	
2844	Exoc3l2	1.77	52	4.32	64	7.66	
2845	Acsf3	1.77	64	4.92	61	8.72	
2846	Pik3r2	1.77	206	15.7	266	27.82	
2847	Mtm1	1.77	117	10.66	143	18.88	
2848	Ppp6r1	1.77	451	20.76	535	36.77	
2849	Rhno1	1.77	33	11.26	40	19.94	
2850	Rnf220	1.77	254	22.45	266	39.76	
2851	RGD1562987	1.77	97	20.99	107	37.15	
2852	Tmem126a	1.77	156	9.23	169	16.33	
2853	Zfp251	1.77	128	5.76	140	10.19	
2854	Fanca	1.77	46	1.27	43	2.25	
2855	Parp2	1.77	67	7.54	84	13.34	
2856	Cdk19	1.77	190	5.78	236	10.22	
2857	Zc3h7b	1.77	483	19.19	574	33.92	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2858	Tm7sf2	1.77	104	12.17	115	21.5	
2859	H2afy	1.77	580	36.86	606	65.11	
2860	Acp6	1.77	78	10.21	96	18.03	
2861	Pomt1	1.76	151	9.58	167	16.91	
2862	Mpv17	1.76	70	13.76	72	24.28	
2863	AABR07052523.1	1.76	1	2.09	2	3.69	
2864	D2hgdh	1.76	19	0.97	19	1.7	
2865	Slx1b	1.76	47	2.28	49	4.02	
2866	Xrcc6bp1	1.76	26	3.23	29	5.69	
2867	Tmem248	1.76	320	35.86	357	63.26	
2868	Fam73b	1.76	158	8.52	185	15.03	
2869	Enpp4	1.76	91	4.76	109	8.39	
2870	Hexdc	1.76	110	8.36	121	14.75	
2871	Vnn1	1.76	239	22.28	291	39.27	
2872	AABR07002627.1	1.76	50	6.43	87	11.32	
2873	LOC100360117	1.76	0	9.88	0	17.41	
2874	Obfc1	1.76	63	5.11	76	9.01	
2875	S1pr3	1.76	33	2.23	40	3.92	
2876	Zfp692	1.76	53	3.74	62	6.6	
2877	RGD621098	1.76	89	5.56	107	9.79	
2878	Rpp14	1.76	67	8.4	68	14.78	
2879	Cbx6	1.76	240	16.58	265	29.18	
2880	Ipp	1.76	78	4.02	76	7.07	
2881	Kbtbd3	1.76	26	0.97	24	1.71	
2882	Mrpl49	1.76	18	9.3	21	16.36	
2883	Dhx35	1.76	68	1.94	66	3.41	
2884	Fzd8	1.76	0	1.59	0	2.79	
2885	Gnpda1	1.76	63	6.99	74	12.29	
2886	Scrn2	1.76	24	3.17	25	5.58	
2887	Tor1a	1.76	99	12.7	104	22.33	
2888	Zfp710	1.76	90	3.97	93	6.97	
2889	Galnt10	1.76	167	10.23	209	17.97	
2890	Ifnar1	1.76	257	13.72	301	24.1	
2891	Slc2a8	1.76	32	2.87	34	5.03	
2892	Tmed4	1.76	60	30.05	110	52.76	
2893	Sobp	1.75	93	2.78	98	4.88	
2894	Lmbrd1	1.75	92	6.16	111	10.8	
2895	Btrc	1.75	280	6.6	350	11.57	
2896	Tp53	1.75	390	38.08	429	66.73	
2897	Klhl42	1.75	46	3.01	52	5.27	
2898	Ii10rb	1.75	58	6.76	77	11.83	
2899	Dnaja4	1.75	72	6.68	89	11.69	
2900	Mfap2	1.75	102	23.62	123	41.32	
2901	Hif1a	1.75	798	47.27	957	82.68	
2902	Uggt2	1.75	187	6.54	194	11.43	
2903	Upf3b	1.75	123	6.26	164	10.94	
2904	LOC498369	1.75	365	18.15	399	31.73	
2905	Rgs2	1.75	139	38.18	167	66.74	
2906	Calcoco1	1.75	0	6.03	0	10.53	
2907	Rab4b	1.75	194	32.95	208	57.59	
2908	Pld3	1.75	237	26.83	293	46.89	
2909	Myo1b	1.75	463	20.57	633	35.92	
2910	LOC100361056	1.74	31	4.55	32	7.93	
2911	LOC685520	1.74	0	1.51	0	2.64	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2912	LOC689986	1.74	2	0.35	4	0.62	
2913	S100a13	1.74	13	2.57	10	4.49	
2914	Serpinc1	1.74	117	0.36	128	0.63	
2915	Abca4	1.74	19	0.17	15	0.3	
2916	AC132752.2	1.74	6	3.96	6	6.9	
2917	Ache	1.74	7	0.37	8	0.65	
2918	Arhgap4	1.74	7	0.39	8	0.68	
2919	C2_2	1.74	1	0.48	1	0.83	
2920	Chic1	1.74	24	0.7	29	1.23	
2921	Cyb5d2	1.74	8	0.86	14	1.5	
2922	Ggact	1.74	20	3.7	30	6.45	
2923	Gla	1.74	60	9.86	63	17.2	
2924	LOC100910581	1.74	0	1.33	0	2.31	
2925	Lpin1	1.74	69	4.43	89	7.73	
2926	Ndufb7	1.74	111	42.65	128	74.37	
2927	Pex26	1.74	51	2.75	60	4.79	
2928	Rab40c	1.74	59	4.09	79	7.13	
2929	Rad51	1.74	15	1.72	19	3.01	
2930	Rundc3a	1.74	5	0.61	9	1.06	
2931	Sap30	1.74	10	3.78	12	6.58	
2932	Spata9	1.74	24	1.2	27	2.1	
2933	Zfp551	1.74	5	0.29	6	0.5	
2934	Cfap70	1.74	10	0.31	14	0.54	
2935	Nat14	1.74	10	1.64	13	2.86	
2936	Nrp2	1.74	159	5.28	181	9.21	
2937	Samd5	1.74	9	0.5	13	0.87	
2938	Sfxn5	1.74	16	0.5	12	0.86	
2939	Szt2	1.74	204	4.03	244	7.01	
2940	Sgpl1	1.74	290	14.27	336	24.83	
2941	Traf2	1.74	109	9.75	122	16.97	
2942	Id1	1.74	91	23.93	109	41.57	
2943	Irf2	1.74	91	3.23	91	5.62	
2944	Samd10	1.74	42	5	51	8.68	
2945	Pdlim4	1.74	111	17.37	120	30.17	
2946	Bche	1.74	116	4.19	134	7.27	
2947	Ctdsp1	1.74	388	28.68	460	49.77	
2948	Gstp1	1.73	501	163.95	609	284.38	
2949	Snap47	1.73	58	4.37	64	7.58	
2950	Rbm45	1.73	88	8.58	107	14.88	
2951	Pafah2	1.73	39	2.46	41	4.26	
2952	Camsap3	1.73	59	2.95	71	5.11	
2953	Lime1	1.73	29	3.43	39	5.94	
2954	Parl	1.73	38	9.34	55	16.18	
2955	Adgrf5	1.73	105	2.73	123	4.73	
2956	Cyp2c13_1	1.73	124	17.66	160	30.58	
2957	Lrp12	1.73	211	11.59	243	20.08	
2958	Pkdcc	1.73	60	6.31	67	10.93	
2959	Stom	1.73	71	6.74	83	11.67	
2960	Glul	1.73	274	27.27	329	47.21	
2961	Psenen	1.73	75	31.85	85	55.13	
2962	Top3b	1.73	148	9.27	149	16.03	
2963	Tspan15	1.73	50	5.95	37	10.3	
2964	Tor1aip2_1	1.73	13	6.68	16	11.56	
2965	Trappc6a	1.73	25	5.42	45	9.38	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
2966	AC141516.3	1.73	9	10.42	8	18.03	
2967	RT1-CE4	1.73	22	2.28	17	3.95	
2968	Masp1	1.73	4740	183.58	6273	317.31	
2969	Ermard	1.73	86	4.53	100	7.82	
2970	Ino80c	1.73	50	3.56	53	6.16	
2971	Dzip1	1.73	156	12.55	193	21.67	
2972	Bcat2	1.73	163	21.79	179	37.61	
2973	LOC691135	1.73	12	0.94	10	1.63	
2974	Lpar2	1.73	18	1.94	19	3.35	
2975	Taf1a	1.73	36	2.93	24	5.06	
2976	Tm9sf1	1.73	163	13.26	188	22.88	
2977	Fam69a	1.73	22	1.79	29	3.08	
2978	Hscb	1.73	38	4.18	41	7.21	
2979	Sin3a	1.72	339	16.51	402	28.48	
2980	Gtf2i	1.72	979	46.54	1175	80.28	
2981	Gripap1	1.72	176	10.14	218	17.49	
2982	Mul1	1.72	77	4.4	90	7.58	
2983	Casp2	1.72	174	11.1	206	19.13	
2984	Plbd2	1.72	311	34.36	369	59.19	
2985	Ssbp3	1.72	445	39.09	510	67.33	
2986	Zfp786	1.72	28	1.58	34	2.72	
2987	Tshz1	1.72	389	30.63	461	52.74	
2988	Pik3c3	1.72	88	5.22	102	8.99	
2989	Pank1	1.72	139	9.5	159	16.35	
2990	Tbc1d17	1.72	126	12.16	150	20.92	
2991	Kctd2	1.72	64	7.46	81	12.84	
2992	Peo1	1.72	54	3.39	60	5.83	
2993	Rxra	1.72	71	7.53	95	12.95	
2994	RT1-A1	1.72	150	13.99	161	24.06	
2995	Has3	1.72	18	0.39	20	0.68	
2996	Usp30	1.72	103	6.09	122	10.46	
2997	Cpne8	1.72	37	1.62	43	2.79	
2998	Efna4	1.72	27	3.62	37	6.22	
2999	Lmo3	1.72	18	1.15	22	1.97	
3000	RGD1309540	1.72	159	6.98	159	11.99	
3001	Rita1	1.72	15	2.15	13	3.69	
3002	Grin2d	1.72	30	0.52	18	0.9	
3003	Sppl2b	1.72	157	12.2	177	20.94	
3004	Arhgap39	1.72	114	3.3	139	5.65	
3005	Cdkl5	1.71	168	4.23	235	7.25	
3006	Prps2	1.71	769	64.53	930	110.63	
3007	Fbn2	1.71	235	7.28	283	12.47	
3008	Dalrd3	1.71	112	9.62	162	16.48	
3009	Bean1	1.71	44	7.06	54	12.09	
3010	Klhl7	1.71	182	9.23	205	15.81	
3011	Rxrb	1.71	113	6.63	139	11.35	
3012	Ndst1	1.71	286	16.26	322	27.83	
3013	Ccdc120	1.71	66	2.89	63	4.95	
3014	Eepd1	1.71	75	4.97	89	8.5	
3015	RGD1560212	1.71	18	6.73	21	11.51	
3016	Tsc22d3_1	1.71	90	11.58	106	19.81	
3017	Bag6	1.71	1068	64.77	1238	110.85	
3018	Ergic3	1.71	239	39.21	269	67.08	
3019	Cblb	1.71	273	6.78	319	11.59	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3020	Spg20	1.71	128	7.05	144	12.06	
3021	Dync2li1	1.71	22	2.49	23	4.26	
3022	Pigy	1.71	20	2.83	24	4.84	
3023	Thbs3	1.71	78	5.37	86	9.19	
3024	Mbtd1	1.71	142	5.57	177	9.52	
3025	Tmub2	1.71	97	7.85	102	13.4	
3026	Slc9a8	1.71	178	8	195	13.65	
3027	Tmem205	1.71	29	3.97	29	6.77	
3028	Tob1	1.71	183	22.61	214	38.56	
3029	Btf3l4	1.71	27	12.01	29	20.49	
3030	Aldh6a1	1.7	91	8.79	96	14.97	
3031	Rasef	1.7	43	3.57	55	6.08	
3032	Alms1	1.7	166	2.99	199	5.09	
3033	Cenpe	1.7	160	4.41	208	7.51	
3034	Gns_2	1.7	196	27.61	211	46.94	
3035	C1r	1.7	459	40.75	532	69.28	
3036	Pigt	1.7	487	49.14	554	83.51	
3037	Cdk5rap3	1.7	70	7.6	73	12.92	
3038	Ppm1l	1.7	136	3.82	158	6.49	
3039	Ambra1	1.7	436	13.99	501	23.75	
3040	Megf9	1.7	129	7.71	137	13.09	
3041	Tgfa	1.7	145	6.92	179	11.74	
3042	Med13l	1.7	871	19.58	993	33.22	
3043	Hsd17b4	1.7	214	16.71	233	28.35	
3044	Gata4	1.7	1168	66.54	1370	112.88	
3045	Stat3	1.7	449	22.9	535	38.84	
3046	AABR07013202.1	1.7	4	1.76	5	2.99	
3047	AABR07030911.1	1.7	1	3.3	0	5.59	
3048	AC105693.1	1.7	9	1.71	17	2.9	
3049	Asb13	1.7	32	3.14	32	5.32	
3050	Cd1d1	1.7	18	2.44	22	4.14	
3051	Gatsl3	1.7	6	0.94	8	1.6	
3052	Gemin4	1.7	102	7.5	120	12.72	
3053	Gli4	1.7	43	2.62	48	4.45	
3054	Grasp	1.7	10	0.73	6	1.23	
3055	LOC100911721	1.7	0	0.89	1	1.51	
3056	Mpv17l2	1.7	19	2.65	21	4.49	
3057	Nceh1	1.7	130	7.69	136	13.04	
3058	RGD1562339	1.7	34	6.05	43	10.26	
3059	RragB_2	1.7	0	1.14	0	1.93	
3060	Sap25	1.7	8	1.26	7	2.14	
3061	Slc29a1	1.7	7	0.71	11	1.2	
3062	Slitrk6	1.7	7	0.35	7	0.6	
3063	AABR07029195.1	1.7	2	3.68	2	6.23	
3064	Gramd1c_1	1.7	6	0.45	5	0.76	
3065	Il6r	1.7	30	1.3	38	2.21	
3066	Mis18bp1	1.7	30	0.81	31	1.37	
3067	Nxpe3	1.7	11	0.45	11	0.76	
3068	Pcdhb19	1.7	6	0.62	7	1.05	
3069	Rnf123	1.7	126	8.04	137	13.63	
3070	Rundc3b	1.7	17	0.4	21	0.68	
3071	Syne3	1.7	14	0.49	23	0.83	
3072	Ttc39c	1.7	53	3.59	62	6.08	
3073	Ttf2	1.7	73	3.96	109	6.7	

Supplemental Table 2
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	A	B	C	D	E	F	G
3074	Zmym1	1.7	36	1.17	30	1.98	
3075	Tacc1	1.69	359	9.98	430	16.9	
3076	Aplp2	1.69	1089	73.57	1263	124.54	
3077	Reln	1.69	120	1.91	143	3.23	
3078	Zfp512	1.69	134	6.31	133	10.68	
3079	Entpd5	1.69	78	3.61	100	6.12	
3080	Rnf166	1.69	102	10.36	110	17.54	
3081	Casp9	1.69	76	4.9	93	8.3	
3082	L3mbtl2	1.69	215	13.12	231	22.19	
3083	Vps28	1.69	129	29.58	153	50.03	
3084	Asl	1.69	43	7.66	52	12.95	
3085	LOC100911664	1.69	683	44.14	665	74.61	
3086	Rnf168	1.69	57	3.24	63	5.48	
3087	Trub1	1.69	90	2.59	99	4.38	
3088	Ago1	1.69	156	11.74	172	19.82	
3089	Abca3	1.69	446	14.45	477	24.4	
3090	AABR07052758.1	1.69	21	3.71	22	6.25	
3091	Armc10	1.69	146	15.24	154	25.71	
3092	Dcps	1.69	81	11.54	92	19.47	
3093	Drg2	1.69	89	12.74	84	21.49	
3094	Stim1	1.69	163	8.22	188	13.87	
3095	Nop10	1.69	73	30.78	100	51.9	
3096	Mrps33	1.69	27	10.61	34	17.89	
3097	Nipa1	1.69	38	3.39	50	5.71	
3098	Adi1	1.69	25	4.44	29	7.48	
3099	Dnase111	1.69	68	7.8	69	13.14	
3100	Phospho2	1.69	31	2.96	41	4.99	
3101	Tbc1d14	1.69	296	10.6	326	17.87	
3102	Tmem189	1.68	263	31.58	275	53.2	
3103	Akt2	1.68	369	36.29	388	61.14	
3104	Copz2	1.68	61	11.99	58	20.2	
3105	Ppwd1	1.68	62	4.47	68	7.53	
3106	RGD1309534	1.68	53	4.4	60	7.42	
3107	Fv1	1.68	134	17.76	148	29.9	
3108	Kdm4b	1.68	243	5.93	263	9.98	
3109	Fam73a	1.68	74	5.25	80	8.84	
3110	Jrkl	1.68	19	1.63	22	2.75	
3111	Mcee	1.68	21	5.82	27	9.8	
3112	Plek2	1.68	22	1.63	26	2.74	
3113	Ptcd2	1.68	43	2.78	44	4.69	
3114	Dock3	1.68	233	4.91	294	8.25	
3115	Abhd16a	1.68	177	9.8	191	16.48	
3116	Ccdc91	1.68	99	7.14	118	12	
3117	Senp1	1.68	47	6.55	56	11.01	
3118	Nelfa	1.68	159	15.28	194	25.68	
3119	Rspry1	1.68	99	8.4	115	14.11	
3120	Bahcc1	1.68	110	3.29	128	5.52	
3121	MGC94207	1.68	41	8.3	47	13.93	
3122	Lepr	1.68	33	0.75	59	1.26	
3123	Morn4	1.68	30	3.82	32	6.41	
3124	Nudt13	1.68	15	1.27	21	2.13	
3125	RGD1306271	1.68	107	2.54	133	4.26	
3126	Slu7	1.68	158	15.51	172	26.01	
3127	LOC102555377	1.68	28	1.2	21	2.01	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3128	Prr3	1.68	138	9.92	146	16.63	
3129	Zfp53	1.68	28	3.27	30	5.49	
3130	RGD1304567	1.67	48	7.46	49	12.49	
3131	Kdm6a	1.67	308	12.12	380	20.26	
3132	Slc16a1	1.67	336	30.56	368	51.1	
3133	Tmx4	1.67	365	17.73	410	29.64	
3134	Foxo3	1.67	106	6.92	125	11.57	
3135	Wdr59	1.67	76	2.46	88	4.11	
3136	Acsl4	1.67	844	35.98	992	60.11	
3137	Zfp532	1.67	345	8.4	356	14.03	
3138	Usf2	1.67	147	13.23	174	22.09	
3139	Amn1	1.67	80	5.43	74	9.07	
3140	Panx1	1.67	41	2.31	50	3.85	
3141	Timm21	1.67	32	5.12	33	8.55	
3142	Abca7	1.67	26	0.99	31	1.65	
3143	Siah1	1.67	102	6.46	90	10.77	
3144	Rbm4b_2	1.67	81	15.74	102	26.23	
3145	St7l	1.67	119	2.73	133	4.54	
3146	Amfr	1.67	846	103.23	992	172.03	
3147	Fbn1	1.67	765	18.39	863	30.64	
3148	Clstn1	1.67	581	30.66	666	51.09	
3149	Ptk7	1.67	326	29.11	394	48.49	
3150	Ulk1	1.67	217	10.09	248	16.81	
3151	Xpo7	1.67	413	18.57	465	30.94	
3152	Dguok	1.67	100	8.43	113	14.04	
3153	Wdr33	1.66	338	12.11	397	20.16	
3154	Erlec1	1.66	153	14.63	164	24.34	
3155	Insr	1.66	346	10.58	412	17.61	
3156	Csrp2	1.66	443	68.75	478	114.35	
3157	Pycr2	1.66	85	12.82	96	21.32	
3158	Ralgapa1	1.66	337	9.01	358	14.99	
3159	Fst	1.66	135	25.23	146	41.96	
3160	Mdh1	1.66	585	105.32	679	175.11	
3161	Polr2a	1.66	922	33.21	1044	55.21	
3162	Dhx40	1.66	151	8.35	165	13.88	
3163	Tep1	1.66	328	9	364	14.96	
3164	AABR07028908.2	1.66	5	0.27	5	0.44	
3165	Alg8	1.66	43	2.62	40	4.35	
3166	Klhl15	1.66	27	0.75	25	1.25	
3167	Rhpn1	1.66	7	0.66	9	1.09	
3168	Scrn3	1.66	58	3.31	63	5.5	
3169	Als2cl	1.66	18	1.22	25	2.03	
3170	Ankle1	1.66	11	1.08	15	1.8	
3171	Atmin_2	1.66	90	7.36	103	12.22	
3172	Fscn1	1.66	11	1.18	12	1.96	
3173	Gca	1.66	41	2.83	28	4.7	
3174	Itpr1p1	1.66	14	1.86	16	3.09	
3175	Micb	1.66	65	5.82	72	9.66	
3176	Mme	1.66	333	23.12	369	38.39	
3177	Mthfsd	1.66	20	1.59	20	2.65	
3178	Pih1d2	1.66	18	1.34	13	2.22	
3179	Plagl1	1.66	7	0.38	7	0.62	
3180	RGD1566189	1.66	3	3.16	2	5.25	
3181	Zmat5	1.66	17	3.68	17	6.1	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3182	AABR07065886.1	1.66	5	2.16	5	3.58	
3183	Mmp19	1.66	36	4.35	40	7.22	
3184	Atg9a	1.66	235	13.3	262	22.08	
3185	Fmnl3	1.66	134	10.57	152	17.54	
3186	Ercc6	1.66	116	2.57	136	4.26	
3187	Cnp	1.66	216	23.06	241	38.24	
3188	Zfp410	1.66	189	10.74	196	17.8	
3189	Zfp687	1.66	128	8.14	149	13.49	
3190	Msi2	1.66	235	14.43	502	23.92	
3191	Dsc2	1.66	87	4.7	99	7.78	
3192	Grina	1.66	561	77.71	631	128.65	
3193	Phkg2	1.65	27	4.47	26	7.39	
3194	Ecd	1.65	73	7.51	85	12.43	
3195	Ccdc23	1.65	31	8.44	39	13.96	
3196	Gid4	1.65	87	4.52	98	7.47	
3197	Zfp523	1.65	94	7.91	105	13.08	
3198	Desi2	1.65	80	5.59	75	9.23	
3199	Tmem175	1.65	137	8.05	148	13.3	
3200	Tpcn2	1.65	41	1.82	51	3.01	
3201	Osgin2	1.65	62	5.63	68	9.3	
3202	Tmem219	1.65	33	2.45	35	4.04	
3203	Col16a1	1.65	321	12.93	346	21.35	
3204	Ctsl	1.65	820	119.65	908	197.45	
3205	Bace1	1.65	208	12.42	238	20.49	
3206	Cdr2l	1.65	109	5.4	117	8.9	
3207	Ascc1	1.65	145	18.62	198	30.72	
3208	Bcl9	1.65	171	6.45	211	10.64	
3209	RGD1359127	1.65	88	13.73	101	22.64	
3210	Gpaa1	1.65	145	17.4	169	28.69	
3211	Tmem101	1.65	50	7.64	61	12.6	
3212	Atm	1.65	343	2.71	359	4.46	
3213	Wdr81	1.65	147	4.84	164	7.98	
3214	Skiv2l	1.65	169	10.45	188	17.21	
3215	Mark4	1.65	340	21.95	363	36.17	
3216	Ptdss2	1.65	200	11.12	230	18.32	
3217	Ift172	1.65	60	2.19	60	3.6	
3218	LOC654482	1.65	25	2.84	28	4.68	
3219	Fitm2	1.65	60	3.35	67	5.52	
3220	Pigx	1.65	136	27	137	44.46	
3221	Slc11a2	1.65	161	6.77	175	11.15	
3222	Tmem128	1.65	170	25.76	167	42.4	
3223	Tubg1	1.65	179	31.71	181	52.19	
3224	Mtch1	1.65	799	98.02	885	161.33	
3225	Ctsz	1.65	107	19.49	123	32.07	
3226	Prkd1	1.64	100	2.8	129	4.6	
3227	Fgfr2	1.64	499	19.89	551	32.7	
3228	Rogdi	1.64	93	13.69	99	22.5	
3229	Man2b1	1.64	354	25.5	427	41.9	
3230	Ints5	1.64	94	7	103	11.5	
3231	LOC100910881	1.64	0	0.83	0	1.36	
3232	Repin1	1.64	55	5.11	53	8.39	
3233	Glg1	1.64	1176	35.23	1332	57.84	
3234	Prepl	1.64	64	4.7	86	7.72	
3235	Ubxn2b	1.64	171	5.53	170	9.08	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3236	Mto1	1.64	72	3.9	55	6.39	
3237	Aifm2	1.64	100	5.69	106	9.33	
3238	Rpn1	1.64	1224	133.74	1357	219.17	
3239	Txndc5	1.64	1107	100.52	1235	164.73	
3240	Fbxl12	1.64	53	6.17	58	10.11	
3241	Stx5	1.64	217	22	241	36.04	
3242	Adcy6	1.64	512	20.72	580	33.93	
3243	Dpagt1	1.64	143	13.52	161	22.14	
3244	Mrps17	1.64	72	13.57	84	22.21	
3245	Smo	1.64	324	20.98	353	34.35	
3246	Arhgef6	1.64	105	7.07	140	11.57	
3247	Vezf1	1.64	252	13.37	269	21.88	
3248	Sppl2a	1.64	67	5.98	48	9.79	
3249	Ctsd	1.64	600	72.46	667	118.54	
3250	Fam174a	1.63	52	8.67	61	14.17	
3251	Slc16a7	1.63	20	0.81	18	1.33	
3252	Zfp235	1.63	77	0.85	66	1.38	
3253	Ap4m1	1.63	54	7.32	60	11.96	
3254	Cbwd1	1.63	37	1.82	35	2.97	
3255	Cntnap3	1.63	26	1.4	29	2.28	
3256	Cxcl16	1.63	8	1.17	9	1.91	
3257	Emilin1	1.63	8	0.52	10	0.85	
3258	Ftl1	1.63	95	234.72	106	383.71	
3259	Hook2	1.63	34	2.3	36	3.77	
3260	LOC100911727	1.63	0	0.8	0	1.3	
3261	LOC102553866	1.63	17	1.11	18	1.82	
3262	Marc2	1.63	59	6.16	70	10.07	
3263	Rnf215	1.63	81	7.2	95	11.77	
3264	Slc10a7	1.63	170	4.61	163	7.54	
3265	Smpd2	1.63	35	4.79	37	7.82	
3266	Tceanc2	1.63	39	5.13	50	8.39	
3267	Wdr62_2	1.63	0	0.39	0	0.64	
3268	Zswim8	1.63	0	0.73	0	1.2	
3269	AABR07042514.3	1.63	32	19.74	41	32.26	
3270	Chac2	1.63	13	1.65	13	2.7	
3271	Ctu1	1.63	26	2.66	27	4.35	
3272	Gabarapl1	1.63	201	27.19	219	44.45	
3273	MGC116121	1.63	58	7.44	70	12.17	
3274	Mmp2	1.63	8	0.65	9	1.06	
3275	Porcn	1.63	18	2.13	19	3.48	
3276	Rsl1d1	1.63	0	1.23	0	2.01	
3277	03/06/15	1.63	277	17.93	287	29.29	
3278	LOC100911674	1.63	121	9.47	137	15.47	
3279	Pxylp1	1.63	88	6.43	98	10.5	
3280	Slc35b2	1.63	160	20.85	176	34.02	
3281	Cables1	1.63	118	4.7	115	7.66	
3282	Tmem120a	1.63	109	14.42	128	23.52	
3283	Wrb	1.63	140	13.06	147	21.29	
3284	Poldip2	1.63	153	22.18	167	36.15	
3285	Slc39a3	1.63	78	4.98	95	8.11	
3286	Eya3	1.63	368	18.24	410	29.72	
3287	Rbm43	1.63	39	4.34	46	7.07	
3288	Gtf2h2	1.63	43	5.39	50	8.78	
3289	Aars2	1.63	57	3.25	61	5.29	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3290	Gpm6a	1.63	30	2.09	33	3.4	
3291	RGD1311164	1.63	37	2.79	45	4.54	
3292	RGD1565784	1.63	25	3.62	28	5.89	
3293	Hdac8	1.63	85	3.17	103	5.16	
3294	Ctbs	1.63	76	14.19	71	23.08	
3295	Pan2	1.63	101	5.37	130	8.74	
3296	Mib2	1.63	140	7.74	159	12.58	
3297	Foxm1	1.63	66	4.3	74	6.99	
3298	Aga	1.63	107	16.02	116	26.04	
3299	Ap3s2	1.63	90	15.3	100	24.86	
3300	Camta2	1.62	155	7.13	168	11.58	
3301	Chst2	1.62	34	5.32	38	8.64	
3302	Amacr	1.62	27	2.45	30	3.97	
3303	Mapre2	1.62	67	7.82	68	12.69	
3304	Nudt2	1.62	27	4.68	27	7.6	
3305	AABR07072440.1	1.62	0	14.56	1	23.64	
3306	Eif3f	1.62	398	70.6	427	114.6	
3307	Slc4a3	1.62	203	9.2	223	14.93	
3308	Ptprd	1.62	590	11.23	694	18.23	
3309	Elp3	1.62	370	23.29	385	37.78	
3310	Nudt5	1.62	62	7.94	69	12.88	
3311	Abcb8	1.62	126	7.32	123	11.87	
3312	Evc	1.62	63	3	72	4.87	
3313	Rrnad1	1.62	56	3.19	61	5.16	
3314	Lrrc57	1.62	20	3.57	24	5.79	
3315	Ndfip1	1.62	497	56.97	540	92.32	
3316	Bmp1	1.62	388	21.38	417	34.65	
3317	Mapk9	1.62	223	10.84	261	17.56	
3318	Suds3	1.62	273	21.02	282	34.05	
3319	Uevld	1.62	75	3.21	63	5.2	
3320	Sil1	1.62	87	6.73	95	10.9	
3321	Mier1	1.62	267	8.84	271	14.3	
3322	Extl3	1.62	233	17.27	255	27.93	
3323	Cd99l2_2	1.62	94	27.59	108	44.59	
3324	Zfp516	1.62	210	9.34	265	15.08	
3325	Asb1	1.61	10	1.11	12	1.79	
3326	Atg4a	1.61	26	1.83	16	2.95	
3327	Atraid	1.61	46	10.9	54	17.59	
3328	Cfp	1.61	47	3.03	53	4.9	
3329	Cisd3	1.61	21	4.56	22	7.37	
3330	Crem	1.61	68	1.92	72	3.11	
3331	Depdc1b	1.61	18	0.9	15	1.45	
3332	Dnajc4	1.61	13	2.31	12	3.73	
3333	Ssc4d	1.61	28	2.55	29	4.11	
3334	Brpf3	1.61	200	7.11	223	11.48	
3335	Ccdc126	1.61	40	3.9	45	6.29	
3336	Lmbr1	1.61	39	2.69	42	4.34	
3337	RGD1562550	1.61	9	0.91	9	1.46	
3338	AABR07052388.1	1.61	10	1.28	10	2.06	
3339	Pdzrn3	1.61	767	19.22	919	31.02	
3340	Tmem2	1.61	385	12.59	418	20.31	
3341	Sept10	1.61	87	6.69	93	10.79	
3342	Nsd1	1.61	585	13.12	681	21.14	
3343	Dnttip1	1.61	159	13.84	172	22.3	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3344	Sept6	1.61	80	4.47	89	7.2	
3345	Galt	1.61	85	14.11	93	22.72	
3346	Trappc9	1.61	237	5.93	235	9.54	
3347	Copg2	1.61	173	12.4	180	19.95	
3348	Cmtr2	1.61	28	2.72	31	4.38	
3349	Zfp715	1.61	47	4.57	52	7.34	
3350	Zbtb8os	1.61	56	7.19	63	11.56	
3351	Usp24	1.61	720	14.83	787	23.85	
3352	Pigs	1.61	265	25.81	286	41.49	
3353	Creld1	1.61	159	16.07	181	25.82	
3354	Hltf	1.61	69	2.92	75	4.69	
3355	Serac1	1.61	29	2.55	36	4.1	
3356	Slc52a2	1.61	39	3.2	48	5.13	
3357	AABR07029742.1	1.61	38	5.34	42	8.58	
3358	Supv3l1	1.61	108	7.32	116	11.76	
3359	Zfp426	1.61	47	3.47	50	5.57	
3360	Eif2ak3	1.61	147	5.83	146	9.35	
3361	Sh3tc2	1.6	277	8.28	307	13.29	
3362	Lta4h	1.6	116	11.85	124	19.01	
3363	Etfhd	1.6	108	8.62	110	13.82	
3364	Kdm4a	1.6	467	18.56	540	29.77	
3365	Gorasp1	1.6	64	5.8	66	9.31	
3366	Prr14	1.6	30	8.72	42	13.98	
3367	Psmb3	1.6	313	96.46	342	154.67	
3368	Slc35c2	1.6	30	8.16	31	13.07	
3369	Zfp719	1.6	58	4.46	66	7.15	
3370	Taf6	1.6	173	13.93	189	22.32	
3371	Bad	1.6	77	14.69	80	23.51	
3372	Fech	1.6	93	5.8	106	9.28	
3373	Kdelc1	1.6	77	8.69	93	13.9	
3374	Aspscr1	1.6	111	9.75	122	15.61	
3375	Nsf	1.6	143	7.87	169	12.59	
3376	Prcc	1.6	214	19	230	30.39	
3377	Fam110a	1.6	25	2.16	30	3.46	
3378	Pde6d	1.6	94	8.7	109	13.91	
3379	RGD1306215	1.6	16	9.7	25	15.5	
3380	Tlcd1	1.6	13	1.19	17	1.9	
3381	Zfp286a	1.6	11	0.81	14	1.29	
3382	2610015P09Rik	1.6	28	0.75	46	1.19	
3383	AABR07001923.1	1.6	10	1.33	11	2.12	
3384	Arid3a	1.6	4	0.55	9	0.88	
3385	Large	1.6	201	6.86	188	10.96	
3386	Mrpl3	1.6	154	16.64	158	26.6	
3387	Osgepl1	1.6	61	2.77	42	4.43	
3388	SNORD22_1	1.6	28	59.33	32	94.83	
3389	Tmem185b	1.6	39	9.46	44	15.13	
3390	Ptprs	1.6	892	33.29	968	53.2	
3391	Prdx4	1.6	183	47.25	195	75.45	
3392	Orc5	1.6	108	7.67	113	12.24	
3393	Atf7ip	1.6	234	12.24	253	19.54	
3394	Cox7c	1.6	277	138.78	321	221.52	
3395	Ube3b	1.6	323	20.72	353	33.07	
3396	Tgoln2	1.6	428	22.63	464	36.11	
3397	LOC691920	1.6	156	1.72	165	2.74	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3398	Map2k5	1.6	147	5.54	128	8.85	
3399	Rev3l	1.6	209	3.52	217	5.61	
3400	Tbc1d24	1.6	56	3.36	75	5.36	
3401	Trappc13	1.6	218	20.42	219	32.58	
3402	Hid1	1.6	99	6.61	107	10.54	
3403	Dtx3	1.59	117	13.07	120	20.83	
3404	Eftud2	1.59	369	25.46	407	40.59	
3405	Wdr92	1.59	20	3.75	30	5.98	
3406	E2f3	1.59	76	3.17	72	5.05	
3407	Kansl1l	1.59	100	2.6	78	4.14	
3408	Cers6	1.59	120	6.47	128	10.3	
3409	Mitf	1.59	123	2.5	127	3.99	
3410	Nr2c2	1.59	133	9.29	136	14.79	
3411	Nkap	1.59	30	4.19	30	6.67	
3412	Psmf1	1.59	125	18.9	135	30.09	
3413	Znfx1	1.59	143	2.89	133	4.61	
3414	Neu1	1.59	111	11.08	121	17.62	
3415	Cog2	1.59	153	10.71	145	17.03	
3416	Zbtb12	1.59	32	3.31	36	5.26	
3417	Stat1	1.59	232	6.32	232	10.04	
3418	Ext2	1.59	706	56.75	773	90.14	
3419	Epn2	1.59	456	19.07	511	30.28	
3420	Arl5a	1.59	171	11.31	172	17.96	
3421	Phf1	1.59	132	8.68	127	13.78	
3422	Tecpr2	1.59	97	2.98	105	4.73	
3423	Tp53i11	1.59	287	24.13	308	38.3	
3424	Chmp1a	1.59	200	19.38	211	30.75	
3425	Tyk2	1.59	111	4.29	116	6.8	
3426	Ctsb	1.59	767	96.48	849	153.07	
3427	Ip6k1	1.59	247	32.62	267	51.72	
3428	Adrb2	1.59	11	1.34	11	2.13	
3429	Ifi30	1.59	69	13.02	78	20.64	
3430	Ifi44	1.59	56	2.8	62	4.44	
3431	Ndufaf6	1.59	33	2.51	28	3.98	
3432	Nme7	1.59	60	5.9	63	9.35	
3433	Sec22c	1.59	22	3.02	21	4.78	
3434	Slc5a6	1.59	79	5.41	82	8.57	
3435	Spc25	1.59	19	2.19	17	3.47	
3436	Tll5	1.59	51	2.05	66	3.24	
3437	Arl16	1.59	35	8.96	34	14.2	
3438	Fam220a	1.59	53	6.4	53	10.15	
3439	Rad54b	1.59	35	0.83	57	1.32	
3440	Rn60_20_0046.4	1.59	11	3.39	12	5.37	
3441	Setmar	1.59	11	1.14	17	1.81	
3442	Tbc1d20	1.58	286	35.99	273	57.02	
3443	Vps18	1.58	97	5.7	102	9.02	
3444	Mbd5	1.58	112	3.51	134	5.55	
3445	Pygb	1.58	412	14.78	431	23.4	
3446	Ubl3	1.58	248	19.79	258	31.3	
3447	Atg2a	1.58	188	6.68	196	10.57	
3448	Nynrin	1.58	117	4.57	122	7.22	
3449	Pigg	1.58	0	1.61	0	2.55	
3450	Rab43	1.58	58	8.82	54	13.95	
3451	Rpl31l4	1.58	2	19.52	2	30.87	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3452	Mccc1	1.58	26	2.32	28	3.67	
3453	Tfap4	1.58	36	2.38	42	3.76	
3454	Lanc1	1.58	142	6.57	164	10.37	
3455	LOC100911440	1.58	0	2.36	0	3.73	
3456	Lgmn	1.58	40	4.4	41	6.93	
3457	Nova1	1.58	126	4.6	108	7.25	
3458	Zmiz2	1.58	9	3.99	3	6.3	
3459	Glis2	1.58	128	8.68	129	13.69	
3460	Cept1	1.58	98	6.93	108	10.93	
3461	Pvr11	1.57	176	7.41	179	11.67	
3462	Smpd1	1.57	327	34.86	350	54.88	
3463	Aox1	1.57	22	0.69	16	1.09	
3464	Kcnk3	1.57	16	0.65	17	1.02	
3465	Caskin2	1.57	118	5.52	121	8.68	
3466	Cirbp	1.57	132	17	149	26.76	
3467	ENSRNOG00000046	1.57	9	1.2	10	1.89	
3468	Hist3h2ba	1.57	9	4.75	5	7.47	
3469	Mgme1	1.57	13	1.46	13	2.3	
3470	St3gal3	1.57	134	7.43	119	11.7	
3471	Zfp394	1.57	40	3.64	43	5.74	
3472	Rbpms2	1.57	19	1.34	19	2.11	
3473	Nlk	1.57	234	6.35	236	9.99	
3474	Scp2	1.57	147	6.97	170	10.96	
3475	Spns1	1.57	92	8.32	110	13.09	
3476	LOC100912481	1.57	2	42.91	11	67.47	
3477	Eri3	1.57	289	29.98	377	47.13	
3478	RGD1306072	1.57	74	3.43	91	5.39	
3479	Klhdc3	1.57	245	27.98	268	43.95	
3480	Nup88	1.57	367	31.92	372	50.14	
3481	Adam9	1.57	215	14.98	230	23.52	
3482	Fbxl20	1.57	100	9.6	129	15.07	
3483	LOC100360638_2	1.57	44	6.24	52	9.79	
3484	Man2c1	1.57	207	13.39	231	21.03	
3485	Ndufaf1	1.57	29	3.27	31	5.13	
3486	Taf4b	1.57	43	1.57	41	2.47	
3487	Nmt2	1.57	259	18.54	264	29.08	
3488	Parm1	1.57	75	3.21	71	5.03	
3489	Ldah	1.57	84	5.76	100	9.03	
3490	Zfp821	1.57	179	8.11	147	12.72	
3491	Camk2g	1.57	209	6.21	213	9.74	
3492	Mettl22	1.57	61	6.93	59	10.87	
3493	Gpi	1.57	1033	115.43	1089	180.85	
3494	Atp6v0a1	1.57	898	39.94	926	62.56	
3495	Nfkb1	1.57	287	15.02	299	23.51	
3496	Dpf3	1.56	98	5.22	106	8.18	
3497	LOC100911660	1.56	0	1.27	0	1.99	
3498	Zbtb5	1.56	131	6.7	141	10.49	
3499	AABR07065420.1	1.56	13	1.11	12	1.74	
3500	Atg10	1.56	76	2.04	65	3.19	
3501	Cdk4	1.56	366	95.9	381	150.07	
3502	Cercam	1.56	17	1.19	15	1.86	
3503	Rcbtb2	1.56	98	7.78	121	12.17	
3504	Tmem179b	1.56	45	13.13	52	20.55	
3505	Capn1	1.56	325	24.87	349	38.93	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3506	Mpg	1.56	20	2.67	31	4.18	
3507	Vps52	1.56	283	19.59	301	30.64	
3508	Cdc42bpg	1.56	75	2.76	75	4.31	
3509	Smarcal1	1.56	80	5.34	101	8.35	
3510	Kif16b	1.56	166	5.03	188	7.86	
3511	Creb3l2	1.56	477	29.93	492	46.78	
3512	Clptm1l	1.56	485	48.5	498	75.8	
3513	Zfp326	1.56	130	8.73	143	13.65	
3514	Tubgcp6	1.56	96	4.1	107	6.41	
3515	Wdr7	1.56	246	7.03	273	10.98	
3516	Lin37	1.56	46	9.99	48	15.6	
3517	Uck1	1.56	148	15.69	141	24.49	
3518	Epas1	1.56	983	47.92	1053	74.81	
3519	Ap1s2	1.56	68	3.07	64	4.79	
3520	Coq9	1.56	133	15.78	128	24.63	
3521	Ift22	1.56	30	4.26	32	6.65	
3522	Ddx28	1.56	26	3.48	29	5.44	
3523	Mipep	1.56	70	5.47	71	8.54	
3524	Nsmce1	1.56	74	7.96	69	12.43	
3525	Ptcd1	1.56	58	4.35	67	6.8	
3526	AC105470.1	1.56	33	2.13	30	3.33	
3527	Arv1	1.56	91	7.25	91	11.3	
3528	Rnf216	1.56	361	11.78	419	18.35	
3529	Best1	1.56	51	3.82	50	5.95	
3530	Tmem132a	1.56	383	26.24	394	40.89	
3531	Mt-nd3	1.56	560	405.97	605	632.58	
3532	Man2b2	1.56	43	12.69	49	19.77	
3533	Por	1.56	254	22.79	269	35.49	
3534	RGD1307262	1.56	38	9.43	39	14.68	
3535	AABR07053185.1	1.56	25	3.04	20	4.73	
3536	Alkbh4	1.56	34	3.66	35	5.7	
3537	Ctsh	1.56	37	3.98	33	6.19	
3538	Ino80e	1.56	109	11.95	114	18.61	
3539	Rnf149	1.56	123	11.77	111	18.33	
3540	Agrn	1.56	215	6.69	243	10.42	
3541	Apoa1bp	1.56	62	15.2	68	23.66	
3542	Atg4c	1.56	28	2.55	35	3.97	
3543	Col23a1_2	1.56	8	1.28	10	1.99	
3544	F11r	1.56	15	1.47	17	2.28	
3545	Tm6sf1	1.56	48	2.43	62	3.78	
3546	Cnpy3	1.56	121	15.53	125	24.16	
3547	Gbas	1.55	143	22.34	135	34.73	
3548	Ndor1	1.55	51	4.31	53	6.7	
3549	Nsun4_1	1.55	7	4.18	13	6.5	
3550	Tmco6	1.55	33	3.92	42	6.09	
3551	Pcnxl3	1.55	419	15.55	431	24.15	
3552	Bicap	1.55	117	15.07	125	23.4	
3553	Pofut1	1.55	157	10.14	167	15.74	
3554	Mcart1_2	1.55	122	16.02	139	24.87	
3555	Arhgap6	1.55	178	16.05	204	24.89	
3556	P3h1	1.55	503	45.67	525	70.85	
3557	Dnajc18	1.55	83	8.01	85	12.42	
3558	Homez	1.55	21	2.12	24	3.29	
3559	Ptprj	1.55	73	1.99	95	3.08	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3560	Zfp113	1.55	22	2.84	29	4.4	
3561	Acbd5	1.55	6	1.62	8	2.51	
3562	B4galt2	1.55	78	9.26	82	14.35	
3563	Bcdin3d	1.55	40	3.05	39	4.72	
3564	Sorcs2	1.55	25	0.58	26	0.89	
3565	Nomo1	1.55	2101	122.06	2240	189.01	
3566	Lpcat3	1.55	720	78.43	761	121.39	
3567	R3hcc1	1.55	94	10.77	96	16.66	
3568	Tmem198b	1.55	32	2.93	35	4.53	
3569	Ccdc104	1.55	56	5.38	54	8.32	
3570	Fastkd2	1.55	37	3.18	33	4.91	
3571	Hibch	1.55	51	3.97	50	6.14	
3572	Kxd1	1.55	108	12.97	105	20.06	
3573	Pml	1.55	150	10.24	149	15.85	
3574	Phc1	1.55	240	13.87	254	21.44	
3575	Fbxw5	1.55	167	16.76	188	25.92	
3576	Mlit10	1.55	249	10.69	239	16.52	
3577	Med14	1.54	417	19.37	452	29.92	
3578	Rbck1	1.54	258	20.97	254	32.38	
3579	Tpp1	1.54	344	33.79	365	52.18	
3580	Anapc2	1.54	422	34.11	423	52.67	
3581	Nmral1	1.54	34	6.55	39	10.12	
3582	RGD1563986	1.54	33	2.53	26	3.91	
3583	Bpgm	1.54	55	6.34	59	9.79	
3584	Dcp1b	1.54	68	3.94	64	6.09	
3585	Piga	1.54	36	1.28	25	1.98	
3586	Jagn1	1.54	123	23.9	126	36.88	
3587	Mbtps1	1.54	735	37.35	760	57.63	
3588	Tapbpl	1.54	94	10.7	95	16.51	
3589	Brix1	1.54	110	9.26	111	14.27	
3590	Zfp346	1.54	159	5.45	175	8.4	
3591	Atp9a	1.54	215	20.25	215	31.22	
3592	Cstf1	1.54	135	9.11	132	14.04	
3593	Dap	1.54	589	77.37	648	119.25	
3594	Ppard	1.54	50	1.46	49	2.25	
3595	Alg11	1.54	90	11.95	91	18.42	
3596	Ubiad1	1.54	92	6.03	98	9.28	
3597	Pias2	1.54	292	27.05	363	41.63	
3598	LOC100909771	1.54	0	2.22	1	3.41	
3599	Zfp949	1.54	29	1.38	25	2.12	
3600	AABR07027581.1	1.54	253	5.2	225	7.99	
3601	LOC100360638_1	1.54	15	1.82	17	2.8	
3602	Mettl3	1.54	219	15.54	204	23.91	
3603	Pex7	1.54	29	2.73	26	4.2	
3604	Ppp2r3c	1.54	68	4.89	59	7.53	
3605	Unc5c	1.54	27	0.45	28	0.7	
3606	Wash1	1.54	126	15.18	126	23.36	
3607	Blvra	1.54	20	3.82	22	5.88	
3608	Cep97	1.54	29	1.31	25	2.02	
3609	Pisd	1.54	164	20.63	166	31.75	
3610	Sp110	1.54	126	14.43	137	22.21	
3611	Tiam1	1.54	21	0.89	23	1.37	
3612	Cd81	1.54	1865	327.92	1913	504.21	
3613	Dhdds	1.54	167	8.56	173	13.15	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3614	Prmt2	1.54	210	19.69	192	30.26	
3615	Slc35a1	1.54	39	6.07	42	9.32	
3616	Tmem106b	1.54	123	11.3	142	17.36	
3617	Lama1	1.54	901	20.04	965	30.79	
3618	Wdtdc1	1.54	223	12.07	232	18.55	
3619	Uckl1	1.54	184	18.82	169	28.93	
3620	Pdpr	1.54	115	7.17	126	11.01	
3621	Bub3	1.54	207	17.57	216	26.99	
3622	Dph2	1.54	36	4.05	37	6.22	
3623	LOC103690024	1.54	5	14.66	3	22.51	
3624	Zfp444	1.54	198	8.48	199	13.02	
3625	Helz2	1.54	95	2.61	97	4.01	
3626	Rwdd4	1.53	103	7.66	101	11.76	
3627	Matr3	1.53	237	17.37	196	26.65	
3628	Dpp7	1.53	208	28.79	218	44.17	
3629	Acvr2a	1.53	60	3.96	59	6.07	
3630	C1d	1.53	59	2.76	55	4.24	
3631	Txndc16	1.53	32	1.82	29	2.8	
3632	Dhps	1.53	109	17.92	115	27.48	
3633	Nfatc2ip	1.53	23	2.07	21	3.18	
3634	Nme3	1.53	18	6.95	21	10.67	
3635	Fam149b1	1.53	206	11.71	198	17.96	
3636	Lman2l	1.53	165	8.28	160	12.69	
3637	Wbp1	1.53	1	10.48	0	16.06	
3638	Agpat3	1.53	252	8.38	241	12.85	
3639	Smg9	1.53	59	4.54	68	6.95	
3640	Zfp133	1.53	58	4.04	62	6.19	
3641	H3f3b_1	1.53	1090	164.4	1148	251.81	
3642	Gramd3	1.53	93	5.08	88	7.78	
3643	Rnf31	1.53	103	6.54	102	10.02	
3644	Mt-co2	1.53	4766	1744.52	5021	2668.93	
3645	Casp8	1.53	35	2.34	30	3.57	
3646	Dnmbp	1.53	94	3.12	98	4.77	
3647	RragB_1	1.53	0	1.21	0	1.85	
3648	LOC100910438	1.53	0	2.59	0	3.96	
3649	Tbccd1	1.53	51	3.67	48	5.62	
3650	Bfar	1.53	236	12.31	258	18.8	
3651	Lifr	1.53	111	4.49	118	6.85	
3652	Arid1b	1.53	565	14.25	645	21.76	
3653	Zscan21	1.53	180	13.36	171	20.41	
3654	Ahdc1	1.53	127	3.24	127	4.94	
3655	Srsf7	1.53	327	56.42	358	86.12	
3656	Pnrc2	1.53	203	23.24	224	35.46	
3657	Atmin_1	1.53	15	2.04	15	3.12	
3658	Pir	1.53	27	3.3	34	5.03	
3659	Prkd2	1.53	51	3.16	53	4.82	
3660	Rchy1	1.53	100	11.92	110	18.19	
3661	Rnpc3	1.53	91	6.68	98	10.19	
3662	Supt3h	1.53	28	5.56	44	8.48	
3663	Gnptab	1.53	226	10.31	247	15.73	
3664	Ivd	1.53	175	16.4	171	25.02	
3665	Tle1	1.53	171	7.74	133	11.81	
3666	Cnot10	1.52	137	10.38	133	15.83	
3667	Mcm2	1.52	247	18.64	260	28.42	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3668	Mtg2	1.52	116	8.32	117	12.69	
3669	Zmat2	1.52	105	13.01	108	19.83	
3670	Jarid2	1.52	123	4.83	135	7.37	
3671	Lemd3	1.52	103	6.55	105	9.98	
3672	Ppp2r5c	1.52	430	30.74	455	46.85	
3673	Trappc4	1.52	63	11.38	70	17.34	
3674	Uhrf1bp1	1.52	205	7.67	189	11.68	
3675	Ctr9	1.52	366	18.29	373	27.85	
3676	Cep72	1.52	34	2.41	34	3.68	
3677	Fuca2	1.52	23	3.17	27	4.82	
3678	AABR07060519.1	1.52	25	2.34	23	3.56	
3679	Chkb	1.52	78	12.47	89	18.98	
3680	Gys1	1.52	190	11.34	187	17.26	
3681	Necap1	1.52	138	10.44	128	15.89	
3682	Pqbp1	1.52	152	13.18	195	20.06	
3683	Nup214	1.52	368	12.32	358	18.75	
3684	Gltscr1l	1.52	183	3.36	181	5.1	
3685	Soga1	1.52	340	12.57	368	19.13	
3686	Apool	1.52	63	7.6	58	11.56	
3687	Fbxo8	1.52	66	5.81	61	8.84	
3688	Fig4	1.52	108	4.92	113	7.48	
3689	Phykpl	1.52	0	1.17	0	1.77	
3690	Apex2	1.52	33	2.97	33	4.51	
3691	Dlgap1	1.52	109	1.11	149	1.68	
3692	Gpr89b	1.52	134	15.35	147	23.31	
3693	Lrig3	1.52	40	1.44	40	2.19	
3694	RGD1310712	1.52	173	8.57	179	13.01	
3695	Tspan3	1.52	375	54.8	385	83.23	
3696	Med23	1.52	225	9.38	216	14.25	
3697	Ubqln2	1.52	311	22.92	323	34.8	
3698	Mt-atp8	1.52	1572	1949.35	1634	2956.9	
3699	AABR07043829.2	1.52	49	3.79	50	5.75	
3700	Cdca7l	1.52	31	2.22	32	3.36	
3701	Cttnbp2	1.52	41	0.97	42	1.46	
3702	Pdcd2	1.52	29	5.05	43	7.66	
3703	P4htm	1.52	30	3.79	37	5.75	
3704	Socs2	1.52	211	24.37	244	36.95	
3705	LOC100363675	1.52	123	31.86	174	48.28	
3706	Mroh1	1.52	184	6.5	186	9.86	
3707	Cog4	1.52	214	12.58	211	19.06	
3708	Rnaseh2a	1.51	113	14.17	116	21.47	
3709	Tbce	1.51	212	10.58	203	16.03	
3710	Rhou	1.51	41	7.79	28	11.79	
3711	Zdhhc12	1.51	17	5.4	17	8.18	
3712	Acad9	1.51	111	9.23	115	13.96	
3713	Gps1	1.51	410	47.18	432	71.36	
3714	Tcta	1.51	61	7.21	55	10.91	
3715	Ogt	1.51	907	29.35	902	44.36	
3716	Calcll	1.51	122	5.3	119	8.01	
3717	Mri1	1.51	28	3.33	29	5.03	
3718	Ppp2ca	1.51	65	40.19	76	60.73	
3719	Wdr73	1.51	28	4.12	31	6.22	
3720	Map1lc3b	1.51	408	23.97	384	36.21	
3721	Tra2a	1.51	485	23.75	562	35.88	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
3722	Myd88	1.51	56	5.17	52	7.81	
3723	Osbpl7	1.51	70	3	61	4.53	
3724	Sh3glb2	1.51	53	6.99	64	10.56	
3725	Suv420h2	1.51	115	7.96	129	12.01	
3726	Gramd1a	1.51	268	17.06	290	25.74	
3727	Zbtb48	1.51	38	2.92	34	4.41	
3728	Rara	1.51	179	11.39	191	17.18	
3729	Cdc37l1	1.51	128	4.5	123	6.78	
3730	Chst10	1.51	41	2.46	35	3.7	
3731	Timmdc1	1.51	73	10.32	81	15.54	
3732	Tle3	1.51	125	5.75	122	8.66	
3733	Osbpl11	1.51	163	6.85	150	10.31	
3734	Cstf2t	1.51	193	13.62	202	20.5	
3735	Rtfdc1	1.51	224	22.54	231	33.92	
3736	Foxp2	1.51	266	4.13	393	6.22	
3737	Pibf1	1.51	89	2.74	99	4.12	
3738	Mtfr1l	1.5	156	19.07	164	28.7	
3739	Rffl	1.5	42	1.75	50	2.63	
3740	AABR07002683.1	1.5	10	4.02	12	6.04	
3741	Atg12	1.5	189	16.9	191	25.4	
3742	Gpank1	1.5	36	4.66	33	7	
3743	Ppp1r16a	1.5	74	5.59	73	8.4	
3744	Pwwp2a	1.5	134	5.13	152	7.71	
3745	Anapc11	1.5	114	6.82	108	10.24	
3746	Ptchd1	1.5	39	1.16	36	1.74	
3747	Smarcb1	1.5	363	22.28	386	33.45	
3748	LOC100909856	1.5	5	2.87	7	4.3	
3749	Ndn	1.5	182	28.55	187	42.85	
3750	Plekhg5	1.5	39	1.92	38	2.88	
3751	Gpc4	1.5	635	52.28	660	78.4	
3752	Ring1	1.5	68	9.16	72	13.74	
3753	Snx11	1.5	72	5.55	79	8.31	
3754	Retsat	1.5	173	18.05	182	27.04	
3755	Tnrc6b	1.5	694	8.24	751	12.35	
3756	Fam120b	1.5	170	6.65	184	9.96	
3757	Nol8	1.5	1	1.78	3	2.67	
3758	Nubp1	1.5	110	17.7	95	26.49	
3759	Kdelr1	1.5	502	81.96	511	122.62	
3760	Bloc1s5	1.5	41	4.75	45	7.11	
3761	AY172581.19	1.5	67	245.55	68	367.32	
3762	Ogfod3	1.5	39	6.45	40	9.64	
3763	RGD1304587	1.5	40	6.7	36	10.02	
3764	Sufu	1.5	107	4.89	82	7.32	
3765	Ppp2r5e	1.5	256	8.24	302	12.32	
3766	Evi5	1.49	224	7.49	217	11.2	
3767	Rtn4ip1	1.49	50	2.91	49	4.35	
3768	Slx4ip	1.49	57	1.45	64	2.16	
3769	Inppl1	1.49	669	47.76	686	71.38	
3770	Sema4b	1.49	563	35.43	572	52.95	
3771	Rcn3	1.49	41	5.25	43	7.84	
3772	Arsk	1.49	44	2.89	42	4.32	
3773	Galk2	1.49	125	7.61	111	11.36	
3774	Parp8	1.49	116	7.54	126	11.26	
3775	Ap3b1	1.49	389	13.53	369	20.19	

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	A	B	C	D	E	F	G
3776	Fem1a	1.49	147	16.69	151	24.91	
3777	Acaa1a	1.49	95	14.16	95	21.13	
3778	Fundc1	1.49	49	4.58	46	6.83	
3779	Dctd	1.49	50	3.71	53	5.53	
3780	Pias3	1.49	161	12.67	169	18.9	
3781	Plin3	1.49	442	71.89	466	107.22	
3782	Wdfy2	1.49	217	6.17	220	9.2	
3783	Ccdc77	1.49	58	3.89	64	5.8	
3784	Katna1	1.49	69	4.44	62	6.62	
3785	Pcdhgb7	1.49	33	3.91	38	5.83	
3786	Rab24	1.49	110	4.75	90	7.08	
3787	Dcaf7	1.49	323	13.66	325	20.37	
3788	Rilpl1	1.49	169	11.41	167	17.01	
3789	Dcbld1	1.49	65	6.41	67	9.56	
3790	Krba1	1.49	223	7.61	209	11.34	
3791	Prune	1.49	101	6.91	106	10.3	
3792	Cdh24	1.49	57	4.25	55	6.33	
3793	Cbx2	1.49	87	5.38	87	8.01	
3794	Slc35a3	1.49	91	10.48	93	15.61	
3795	Rnf144a	1.49	50	1.97	52	2.94	
3796	Nfkb2	1.49	87	6.82	86	10.14	
3797	Tmem201	1.49	171	5.52	140	8.21	
3798	Nat9	1.49	44	8.14	45	12.11	
3799	Adipor2	1.49	185	29.66	183	44.1	
3800	Itpkc	1.49	61	3.33	62	4.95	
3801	Ino80d	1.49	126	6.29	131	9.35	
3802	Ncoa2	1.49	222	10.08	226	14.98	
3803	Lzic	1.49	99	7.86	100	11.67	
3804	Clpp	1.49	48	13.69	51	20.34	
3805	Ilkap	1.49	207	16.61	177	24.67	
3806	Map4k2	1.49	50	2.77	50	4.12	
3807	Smim15	1.49	90	8.96	92	13.31	
3808	Trmt10c	1.49	47	4.28	47	6.35	
3809	Zdhhc7	1.49	144	12.74	146	18.93	
3810	Deaf1	1.49	182	10.7	166	15.88	
3811	Btbd2	1.48	129	15.37	120	22.81	
3812	Wdr11	1.48	204	9.66	203	14.33	
3813	Pus10	1.48	150	3	140	4.45	
3814	Tmem104	1.48	82	5.93	67	8.8	
3815	Luc7l3	1.48	278	17.58	248	26.09	
3816	Smim19	1.48	68	4.83	79	7.17	
3817	Cluap1	1.48	82	6.16	83	9.14	
3818	Pex2	1.48	69	7.52	66	11.15	
3819	Pcdhga10	1.48	49	5.06	50	7.5	
3820	Anxa11	1.48	401	37.36	393	55.35	
3821	Agpat4	1.48	528	33.38	471	49.44	
3822	Atpaf2	1.48	89	8.86	89	13.13	
3823	Gclc	1.48	200	12.77	187	18.91	
3824	Gtf3c6	1.48	55	8.31	56	12.3	
3825	Hp1bp3	1.48	629	35.9	611	53.16	
3826	Fam222b	1.48	207	6.5	179	9.63	
3827	Fto	1.48	408	14.42	414	21.34	
3828	Nrbp1	1.48	282	31	274	45.9	
3829	Alg5	1.48	68	9.45	71	13.98	

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	A	B	C	D	E	F	G
3830	Got1	1.48	131	13.47	136	19.93	
3831	R3hdm1	1.48	922	33.73	973	49.91	
3832	Slc39a9	1.48	271	11.24	258	16.62	
3833	Bicc1	1.48	314	13.65	322	20.18	
3834	Rrp1b	1.48	181	9.73	180	14.39	
3835	B4galt3	1.48	196	21.45	193	31.7	
3836	Kat6b	1.48	201	5.25	222	7.76	
3837	Pla2g12a	1.48	67	9.6	75	14.18	
3838	Eif2b4	1.48	69	9.55	70	14.1	
3839	Rap2a	1.48	76	4.82	71	7.11	
3840	Dnajb9	1.48	66	8.41	66	12.41	
3841	Nol6	1.47	212	9.73	211	14.34	
3842	Gpr180	1.47	182	10.1	174	14.89	
3843	Rabl6	1.47	398	27.18	403	40.07	
3844	Apbb3	1.47	77	7.23	78	10.65	
3845	Fkrp	1.47	70	6.25	66	9.21	
3846	Slc35a2	1.47	104	8.82	88	13	
3847	Coq2	1.47	81	10.1	97	14.88	
3848	Fam57a	1.47	103	17.44	93	25.69	
3849	Tmem200a_1	1.47	72	4.51	66	6.64	
3850	Ficn	1.47	196	12.1	188	17.82	
3851	Ezh1	1.47	95	4.46	82	6.57	
3852	Med20	1.47	94	9.67	89	14.24	
3853	Atp13a2	1.47	177	8.35	184	12.29	
3854	Dip2a	1.47	295	11.92	289	17.54	
3855	Mt-cytb	1.47	8026	1764	8112	2594.98	
3856	Hsd17b10	1.47	97	43.89	79	64.56	
3857	Sash1	1.47	88	3.25	98	4.79	
3858	Mogs	1.47	0	8.35	0	12.28	
3859	Syvn1	1.47	366	17.41	360	25.59	
3860	Dpy19l1	1.47	215	10.69	228	15.68	
3861	Nfatc3	1.47	341	12.54	360	18.4	
3862	Serinc1	1.47	470	72.6	489	106.46	
3863	Dhx16	1.47	99	5.27	91	7.73	
3864	Ppp1r12c	1.47	272	19.35	279	28.37	
3865	Dirc2	1.46	143	11.59	150	16.98	
3866	Wbp1l	1.46	477	23.35	529	34.2	
3867	Slc38a10	1.46	328	17.57	312	25.72	
3868	Sepn1	1.46	179	27.45	165	40.14	
3869	Heph	1.46	171	9.05	166	13.24	
3870	Atp13a1	1.46	356	20.44	352	29.88	
3871	Maged2	1.46	107	36.84	118	53.84	
3872	Me2	1.46	591	42.33	589	61.86	
3873	Nacc2	1.46	258	11.13	271	16.26	
3874	Tgif1	1.46	311	41.92	316	61.17	
3875	Dchs1	1.46	302	6.94	300	10.12	
3876	Ncstn	1.46	927	78.38	940	114.27	
3877	Txnip	1.46	1269	114.87	1276	167.44	
3878	Rere	1.46	961	18.14	933	26.41	
3879	Kif24	1.45	31	0.56	28	0.81	
3880	4930452B06Rik	1.45	14	0.46	15	0.67	
3881	AABR07002674.1	1.45	1	0.46	1	0.66	
3882	AABR07002774.2	1.45	30	2.03	11	2.94	
3883	AABR07005506.1	1.45	1	1.71	2	2.48	

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	A	B	C	D	E	F	G
3884	AABR07008940.1	1.45	0	1.46	0	2.13	
3885	AABR07012276.1	1.45	1	0.32	0	0.47	
3886	AABR07015889.1	1.45	0	0.77	0	1.12	
3887	AABR07020987.1	1.45	1	0.09	1	0.12	
3888	AABR07021759.1	1.45	0	0.53	0	0.77	
3889	AABR07024825.1	1.45	0	0.92	0	1.34	
3890	AABR07027511.1	1.45	0	0.66	0	0.95	
3891	AABR07027752.3	1.45	1	0.42	1	0.6	
3892	AABR07028009.1	1.45	1	0.33	0	0.48	
3893	AABR07028981.1	1.45	0	7.15	0	10.4	
3894	AABR07028989.1	1.45	5	0.12	3	0.18	
3895	AABR07032518.1	1.45	1	0.34	1	0.49	
3896	AABR07034750.1	1.45	2	0.46	1	0.67	
3897	AABR07035008.1	1.45	8	0.21	4	0.31	
3898	AABR07035412.2	1.45	9	0.49	9	0.71	
3899	AABR07036920.1	1.45	0	0.92	0	1.34	
3900	AABR07042077.1	1.45	1	0.1	1	0.14	
3901	AABR07042999.1	1.45	2	0.27	2	0.39	
3902	AABR07043564.1	1.45	9	0.17	24	0.25	
3903	AABR07044569.1	1.45	0	0.15	4	0.21	
3904	AABR07045399.2	1.45	1	0.21	2	0.31	
3905	AABR07047089.1	1.45	1	0.83	1	1.21	
3906	AABR07049038.1	1.45	2	1.42	3	2.06	
3907	AABR07051308.1	1.45	0	0.09	0	0.13	
3908	AABR07052085.1	1.45	2	0.6	2	0.88	
3909	AABR07052432.1	1.45	3	0.3	2	0.43	
3910	AABR07053837.1	1.45	2	1.47	2	2.14	
3911	AABR07055146.1	1.45	4	0.23	1	0.34	
3912	AABR07056013.1	1.45	1	0.31	1	0.45	
3913	AABR07056330.1	1.45	1	0.23	2	0.34	
3914	AABR07058514.2	1.45	0	0.94	0	1.37	
3915	AABR07059258.1	1.45	8	0.32	18	0.46	
3916	AABR07061328.1	1.45	3	0.09	3	0.14	
3917	AABR07061336.3	1.45	0	3.53	0	5.14	
3918	AABR07063459.1	1.45	1	0.68	1	0.98	
3919	AABR07063674.1	1.45	1	0.29	1	0.42	
3920	AABR07067034.1	1.45	2	0.73	1	1.06	
3921	AABR07070131.1	1.45	20	0.38	17	0.56	
3922	AABR07071904.2	1.45	1	0.59	0	0.86	
3923	AABR07072671.1	1.45	1	0.21	1	0.3	
3924	Aasdh	1.45	39	2.11	55	3.07	
3925	Abca17	1.45	4	0.05	4	0.07	
3926	Abca8a	1.45	5	0.09	3	0.13	
3927	Abcg4	1.45	4	0.26	2	0.37	
3928	AC106663.5	1.45	0	1.18	0	1.71	
3929	AC111831.2	1.45	3	1.58	3	2.3	
3930	AC118833.1	1.45	1	0.68	1	0.98	
3931	AC126897.1	1.45	1	0.38	0	0.56	
3932	AC128986.1	1.45	1	0.51	1	0.74	
3933	AC141344.2	1.45	0	0.83	0	1.21	
3934	Actr6	1.45	80	9.25	86	13.44	
3935	Ager	1.45	3	0.82	4	1.19	
3936	Aggf1	1.45	65	5.21	69	7.57	
3937	Aifm3	1.45	2	0.11	2	0.15	

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	A	B	C	D	E	F	G
3938	Akr1c12l1	1.45	1	0.41	1	0.59	
3939	Akr1c2	1.45	1	0.18	1	0.26	
3940	Aldh3b2	1.45	1	0.23	1	0.33	
3941	Aldob	1.45	1	0.16	3	0.23	
3942	Ankrd66	1.45	4	0.43	4	0.63	
3943	Anxa13	1.45	11	0.31	4	0.45	
3944	Arhgap22	1.45	23	0.6	15	0.88	
3945	Ascl2	1.45	1	0.16	1	0.23	
3946	Atf7ip2	1.45	7	0.21	4	0.31	
3947	Atp10b	1.45	98	0.07	108	0.1	
3948	Atp6v0a4	1.45	14	0.31	12	0.45	
3949	Atp7b	1.45	16	0.29	10	0.42	
3950	AY172581.6	1.45	1	3.78	1	5.49	
3951	Bfsp1	1.45	1	0.12	2	0.17	
3952	Bmi1	1.45	28	5.76	29	8.37	
3953	Bmper	1.45	11	0.33	12	0.48	
3954	Btnl7_2	1.45	0	0.12	0	0.17	
3955	Cacna1g	1.45	10	0.06	14	0.09	
3956	Car12	1.45	9	0.48	7	0.7	
3957	Casz1	1.45	35	1.24	43	1.8	
3958	Catsper2	1.45	2	0.23	2	0.33	
3959	Cbr1_2	1.45	0	2.64	0	3.84	
3960	Ccdc15	1.45	44	2.08	47	3.03	
3961	Ccdc150	1.45	5	0.13	11	0.19	
3962	Ccdc177	1.45	1	0.12	1	0.17	
3963	Ccdc42b	1.45	2	0.3	1	0.43	
3964	Ccdc89	1.45	0	0.45	0	0.65	
3965	Cd33	1.45	1	0.27	1	0.39	
3966	Cd79a	1.45	3	0.74	3	1.07	
3967	Cdc25c	1.45	89	4.59	88	6.67	
3968	Cdh17	1.45	3	0.14	3	0.2	
3969	Ceacam10_2	1.45	0	0.34	0	0.5	
3970	Cetn3	1.45	1	2.11	0	3.07	
3971	Cfap53	1.45	26	0.73	22	1.06	
3972	Cfd	1.45	1	0.26	1	0.38	
3973	Chadl	1.45	1	0.11	1	0.16	
3974	Chrna7	1.45	15	1.08	16	1.56	
3975	Clca4l	1.45	3	0.09	4	0.13	
3976	Clcn1	1.45	6	0.08	3	0.11	
3977	Clec2dl1	1.45	43	0.46	37	0.67	
3978	Cnih2	1.45	3	0.56	7	0.82	
3979	Cntn5	1.45	16	0.07	15	0.11	
3980	Crls1	1.45	91	7.2	75	10.46	
3981	Cryl1	1.45	19	1.54	16	2.24	
3982	Cyp2e1	1.45	1	0.11	1	0.16	
3983	Dagla	1.45	10	0.4	13	0.59	
3984	Daglb	1.45	41	3.81	43	5.54	
3985	Ddn	1.45	1	0.07	1	0.1	
3986	Ddost	1.45	544	74.72	537	108.58	
3987	Ddx60	1.45	5	0.06	3	0.09	
3988	Disc1	1.45	22	0.1	8	0.14	
3989	Disp2	1.45	1	0.04	1	0.06	
3990	Dnajc5b	1.45	5	0.26	3	0.37	
3991	Dpysl5	1.45	2	0.05	3	0.07	

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	A	B	C	D	E	F	G
3992	Echdc3	1.45	20	1.22	17	1.77	
3993	Efs	1.45	10	0.58	11	0.84	
3994	Emc9	1.45	5	0.07	1	0.1	
3995	Endog	1.45	8	2.12	7	3.08	
3996	ENSRNOG00000050	1.45	0	0.77	0	1.12	
3997	Fam96a	1.45	68	13.77	75	20.01	
3998	Fau	1.45	0	0.62	0	0.9	
3999	Fbln7	1.45	3	0.38	4	0.55	
4000	Fbxl15	1.45	4	0.74	4	1.08	
4001	Fcgr2b	1.45	11	0.07	10	0.1	
4002	Fgr	1.45	2	0.09	3	0.14	
4003	Flt1	1.45	32	0.04	10	0.05	
4004	Fmn1	1.45	16	0.18	22	0.26	
4005	Fmnl2	1.45	150	6.91	149	10.04	
4006	Foxo6	1.45	3	0.13	4	0.19	
4007	Fut7	1.45	1	0.11	0	0.16	
4008	Fxyd1	1.45	2	0.47	1	0.68	
4009	G6b	1.45	6	0.3	1	0.43	
4010	Gabra5	1.45	3	0.09	5	0.14	
4011	Gas2	1.45	1	0.1	4	0.14	
4012	Gdf9	1.45	6	1.08	6	1.57	
4013	Ggnbp1	1.45	2	0.17	2	0.25	
4014	Gle1	1.45	153	9.36	132	13.6	
4015	Gmnc	1.45	2	0.09	1	0.13	
4016	Gnao1	1.45	59	0.72	46	1.05	
4017	Gnptg	1.45	53	8.52	50	12.38	
4018	Grb7	1.45	1	0.09	2	0.13	
4019	Gxylt2	1.45	3	0.19	6	0.27	
4020	Hepacam	1.45	20	2.78	18	4.04	
4021	Hist1h2bd	1.45	0	0.65	0	0.95	
4022	Hist2h2aa2_1	1.45	0	0.63	0	0.92	
4023	Hmgb2l1	1.45	0	0.79	0	1.14	
4024	Hnf1a	1.45	3	0.07	1	0.1	
4025	Hoxc4	1.45	1	0.12	1	0.18	
4026	Hoxd4	1.45	2	0.09	2	0.13	
4027	Hprt1_1	1.45	0	1.9	0	2.76	
4028	Hrasls	1.45	1	0.08	2	0.12	
4029	Hs3st3a1	1.45	2	0.21	3	0.3	
4030	Hydin	1.45	9	0.02	11	0.02	
4031	Hykk	1.45	6	0.3	8	0.43	
4032	Hyls1	1.45	8	2.12	8	3.07	
4033	Il33	1.45	1	0.1	1	0.15	
4034	Inpp4b	1.45	16	0.05	10	0.08	
4035	Irak4	1.45	41	1.81	42	2.63	
4036	Isg20l2	1.45	63	12.08	58	17.55	
4037	Itgax	1.45	1	0.05	1	0.08	
4038	Izumo4	1.45	5	0.36	3	0.53	
4039	Khdrbs2	1.45	18	0.13	18	0.19	
4040	Klf17	1.45	0	0.13	1	0.18	
4041	Klhl10	1.45	5	0.25	6	0.36	
4042	Klhl30	1.45	3	0.28	3	0.4	
4043	Klrg2	1.45	14	0.21	6	0.31	
4044	Krt14	1.45	2	0.35	3	0.51	
4045	Lamb3	1.45	6	0.12	3	0.17	

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	A	B	C	D	E	F	G
4046	Lipt1	1.45	9	0.82	10	1.18	
4047	Lmntd2	1.45	2	0.09	1	0.12	
4048	Lnpep	1.45	1	1.27	0	1.84	
4049	LOC100359912	1.45	0	0.11	0	0.16	
4050	LOC100360200	1.45	1	0.47	1	0.69	
4051	LOC100360432_1	1.45	0	1.49	0	2.17	
4052	LOC100361854	1.45	0	3.58	0	5.2	
4053	LOC100362344	1.45	0	0.43	0	0.62	
4054	LOC100362684	1.45	0	1.38	0	2.01	
4055	LOC100363289	1.45	5	0.4	3	0.58	
4056	LOC100364265	1.45	2	0.13	2	0.19	
4057	LOC100366054	1.45	0	0.2	2	0.29	
4058	LOC100910373	1.45	2	0.1	1	0.14	
4059	LOC100911034	1.45	0	0.36	1	0.52	
4060	LOC100911293	1.45	127	8.48	124	12.32	
4061	LOC100911776	1.45	0	0.39	0	0.57	
4062	LOC100911994	1.45	0	0.24	0	0.35	
4063	LOC100912537	1.45	0	0.98	0	1.42	
4064	LOC100912697	1.45	1	0.1	1	0.14	
4065	LOC102553012	1.45	4	0.41	4	0.6	
4066	LOC497899	1.45	1	0.23	1	0.33	
4067	LOC499770	1.45	48	5.53	35	8.04	
4068	LOC501406	1.45	7	0.83	4	1.2	
4069	LOC680528	1.45	1	0.47	1	0.69	
4070	LOC681380	1.45	1	0.62	0	0.91	
4071	LOC684828	1.45	1	0.38	1	0.55	
4072	LOC685081	1.45	0	0.16	1	0.23	
4073	LOC689991	1.45	4	0.02	9	0.04	
4074	LOC691083	1.45	7	0.27	11	0.39	
4075	LOC691153	1.45	1	0.16	1	0.24	
4076	LOC691422	1.45	13	1.66	13	2.42	
4077	Loxl4	1.45	4	0.17	4	0.25	
4078	Ltc4s	1.45	1	0.49	1	0.72	
4079	Map3k19	1.45	2	0.06	1	0.08	
4080	Mapk11	1.45	1	0.1	3	0.15	
4081	Masp2	1.45	53	1.11	59	1.61	
4082	Mast4_1	1.45	0	0.1	0	0.14	
4083	Mctp1	1.45	40	0.11	24	0.16	
4084	Metap1d	1.45	62	1.32	64	1.92	
4085	Metazoa_SRP_16	1.45	0	0.88	0	1.28	
4086	MGC116197	1.45	2	0.18	1	0.26	
4087	Mkrn2os	1.45	10	0.09	6	0.12	
4088	Mr1	1.45	6	0.41	16	0.6	
4089	Mtfp1	1.45	4	0.73	4	1.06	
4090	Mtus2	1.45	29	0.43	28	0.62	
4091	Mylk2	1.45	1	0.06	2	0.08	
4092	Myo16	1.45	8	0.04	11	0.05	
4093	Mzt1	1.45	22	3.15	16	4.58	
4094	Nat1	1.45	1	0.25	0	0.36	
4095	Ncf1	1.45	2	0.09	1	0.13	
4096	Nek4	1.45	43	2.52	38	3.67	
4097	Nhp2_1	1.45	0	6.73	0	9.79	
4098	Nme5	1.45	4	0.16	5	0.24	
4099	Nmrk1	1.45	18	0.44	7	0.64	

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	A	B	C	D	E	F	G
4100	Nr4a2	1.45	20	1.03	15	1.5	
4101	Oas1e	1.45	2	0.43	0	0.63	
4102	Oasl2	1.45	7	0.45	5	0.65	
4103	Obscn	1.45	6	#####	5	0.01	
4104	Olr107	1.45	1	0.26	1	0.38	
4105	Olr1461	1.45	2	0.54	2	0.78	
4106	Ostm1	1.45	98	15.91	95	23.12	
4107	Otud7a	1.45	6	0.56	10	0.81	
4108	Pabpc4l	1.45	4	0.68	4	0.99	
4109	Panx3	1.45	4	0.31	3	0.45	
4110	Pars2	1.45	32	2.27	31	3.3	
4111	Pbsn_2	1.45	0	0.33	1	0.48	
4112	Pcdhb11	1.45	5	0.54	4	0.78	
4113	Pcsk4	1.45	11	0.51	19	0.74	
4114	Pex19_2	1.45	0	0.55	0	0.8	
4115	Pigo	1.45	71	4.9	68	7.13	
4116	Plcd4	1.45	12	0.09	5	0.13	
4117	Plcg2	1.45	2	0.13	7	0.19	
4118	Pld4	1.45	1	0.13	1	0.18	
4119	Plekhg6	1.45	7	0.21	6	0.31	
4120	Pls1	1.45	3	0.14	2	0.2	
4121	Pms2	1.45	82	4.26	79	6.19	
4122	Pnlcd1	1.45	3	0.11	6	0.17	
4123	Polr2m_2	1.45	0	0.23	0	0.33	
4124	Pou2f2	1.45	5	0.09	2	0.13	
4125	Pp2d1	1.45	47	2.1	31	3.05	
4126	Ppfibp2	1.45	13	0.38	15	0.55	
4127	Ppil6	1.45	7	0.53	8	0.76	
4128	Ppp1r14d	1.45	18	0.42	14	0.6	
4129	Primpol	1.45	19	1.14	13	1.66	
4130	Pspn	1.45	1	0.53	1	0.77	
4131	Ptpn18	1.45	3	0.36	2	0.53	
4132	Ptpn20	1.45	1	0.08	3	0.12	
4133	Rab17	1.45	2	0.16	1	0.23	
4134	Rab27a	1.45	16	1.02	16	1.49	
4135	Rac2	1.45	1	0.18	2	0.27	
4136	Rasd2	1.45	2	0.07	1	0.1	
4137	Rasl10a	1.45	1	0.2	1	0.29	
4138	Rbbp8nl	1.45	7	0.1	5	0.14	
4139	Rbm48	1.45	11	1.34	10	1.94	
4140	Rdh5	1.45	9	0.22	3	0.31	
4141	RGD1306441	1.45	1	0.22	1	0.32	
4142	RGD1306502	1.45	64	3.07	66	4.46	
4143	RGD1307554	1.45	89	5.05	89	7.34	
4144	RGD1310507	1.45	5	0.19	2	0.28	
4145	RGD1560860_2	1.45	1	0.14	1	0.21	
4146	RGD1562029	1.45	7	0.08	15	0.11	
4147	RGD1562409	1.45	0	4.65	0	6.76	
4148	RGD1563072_1	1.45	0	0.37	0	0.53	
4149	RGD1563145	1.45	0	0.39	0	0.57	
4150	RGD1564114	1.45	5	0.43	8	0.62	
4151	RGD1564463	1.45	0	0.14	4	0.21	
4152	RGD1565459	1.45	1	0.68	1	0.98	
4153	RGD1565844	1.45	3	0.79	2	1.14	

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4154	Rgs6	1.45	15	0.04	21	0.06	
4155	Rgs8	1.45	3	0.05	1	0.07	
4156	Rn60_10_0698.6	1.45	0	1.58	0	2.3	
4157	Rn60_10_0891.3	1.45	1	0.32	2	0.46	
4158	Rn60_14_0866.3	1.45	0	0.62	0	0.91	
4159	Rn60_16_0001.1	1.45	1	0.3	1	0.43	
4160	Rn60_1_2448.1	1.45	1	0.17	1	0.25	
4161	Rn60_6_0565.1	1.45	1	0.27	1	0.4	
4162	Rn60_8_0402.1	1.45	0	0.43	1	0.63	
4163	Rn60_8_0909.1	1.45	1	0.38	0	0.55	
4164	RNase_MRP	1.45	30	27.48	30	39.93	
4165	Rnf125	1.45	3	0.18	1	0.26	
4166	Rnf24	1.45	7	4.79	6	6.96	
4167	Rnf32	1.45	13	0.32	11	0.46	
4168	Rpgrip1	1.45	13	0.14	18	0.2	
4169	Rpl38_2	1.45	0	3.51	0	5.1	
4170	Rps29_3	1.45	0	1.46	0	2.12	
4171	Rpusd2	1.45	0	0.32	0	0.47	
4172	Rpusd3	1.45	24	2.83	24	4.12	
4173	RT1-A3	1.45	8	1.73	8	2.52	
4174	Rttt	1.45	64	1.43	65	2.07	
4175	S100a1	1.45	11	2.62	6	3.81	
4176	Scd4	1.45	2	0.44	3	0.64	
4177	Scgb3a1	1.45	2	0.4	2	0.58	
4178	Sgk494	1.45	22	1.03	17	1.5	
4179	Sh2b2	1.45	19	0.71	11	1.03	
4180	Sh3rf1	1.45	93	2.56	92	3.72	
4181	Shisa6	1.45	14	0.32	12	0.46	
4182	Sidt1	1.45	1	0.04	2	0.06	
4183	Skor2	1.45	1	0.08	1	0.12	
4184	Slc12a8	1.45	12	0.1	6	0.14	
4185	Slc1a5	1.45	3	0.09	5	0.13	
4186	Slc25a14	1.45	14	0.97	22	1.41	
4187	Slc25a45	1.45	1	0.1	3	0.15	
4188	Slc35g1	1.45	14	2.48	16	3.61	
4189	Slc37a1	1.45	5	0.26	5	0.37	
4190	Slc5a9	1.45	1	0.05	2	0.07	
4191	Slfn1	1.45	12	0.29	3	0.42	
4192	SNORA43_6	1.45	14	41.22	15	59.89	
4193	SNORD113_26	1.45	0	2.62	0	3.81	
4194	SNORD14_3	1.45	0	17.38	0	25.26	
4195	Spata17	1.45	10	0.15	18	0.21	
4196	Srpk3	1.45	2	0.12	3	0.18	
4197	Ssmem1	1.45	1	0.15	4	0.21	
4198	St8sia5	1.45	4	0.17	4	0.24	
4199	Syk	1.45	4	0.05	1	0.07	
4200	Syt3	1.45	2	0.07	1	0.1	
4201	Tal2	1.45	1	0.21	6	0.31	
4202	Tasp1	1.45	33	0.82	23	1.2	
4203	Tatdn3	1.45	28	4.26	26	6.2	
4204	Tg	1.45	2	0.03	4	0.04	
4205	Tigd4	1.45	1	0.11	1	0.16	
4206	Tm4sf20	1.45	5	0.16	4	0.24	
4207	Tmem156	1.45	3	0.14	6	0.21	

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4208	Tmem169	1.45	1	0.08	1	0.12	
4209	Tmem231	1.45	35	2.61	33	3.79	
4210	Tmem238	1.45	1	0.47	1	0.68	
4211	Tmem240	1.45	7	0.95	6	1.39	
4212	Tmem80	1.45	66	3.69	54	5.36	
4213	Tp53tg5	1.45	2	0.24	2	0.35	
4214	Tph1	1.45	3	0.19	3	0.28	
4215	Trim14	1.45	11	0.2	4	0.3	
4216	Trim17	1.45	14	1.02	26	1.48	
4217	Trim43a	1.45	2	0.37	2	0.53	
4218	Trmt1l	1.45	125	5.78	111	8.4	
4219	Tstd1	1.45	8	0.62	1	0.9	
4220	Ttc32	1.45	7	1.02	7	1.48	
4221	Ttc39b	1.45	26	1.21	26	1.76	
4222	UST4r	1.45	2274	0.12	2897	0.18	
4223	Vcam1	1.45	0	0.06	1	0.09	
4224	Wfdc11	1.45	1	0.21	1	0.3	
4225	Zbtb39	1.45	0	0.04	0	0.06	
4226	Zc3h12c	1.45	70	4.47	67	6.49	
4227	Zdbf2	1.45	20	0.41	18	0.6	
4228	Zfhx4	1.45	5	0.02	7	0.03	
4229	Zfp110	1.45	71	3.94	58	5.72	
4230	Zfp174	1.45	21	1.39	19	2.02	
4231	Zfp202	1.45	85	2.53	69	3.68	
4232	Zfp239	1.45	7	2.88	7	4.18	
4233	Zfp300	1.45	3	0.34	3	0.49	
4234	Zfp341	1.45	11	1.16	11	1.69	
4235	Zfp654	1.45	25	3.64	25	5.28	
4236	Zfp74_1	1.45	0	0.36	0	0.53	
4237	Zfp866_2	1.45	9	1.95	9	2.84	
4238	Zfp87	1.45	2	0.46	2	0.67	
4239	Zfp90	1.45	24	1.88	32	2.74	
4240	Znrf4	1.45	1	0.21	1	0.3	
4241	5S_rRNA_188	1.45	0	10.47	0	15.21	
4242	5S_rRNA_286	1.45	0	4.19	0	6.09	
4243	7SK_111	1.45	0	0.78	0	1.14	
4244	7SK_32	1.45	1	1.55	0	2.26	
4245	7SK_66	1.45	0	1.54	0	2.24	
4246	A3galt2	1.45	5	0.39	4	0.57	
4247	AABR07000411.1	1.45	25	0.15	14	0.21	
4248	AABR07001591.1	1.45	4	0.37	4	0.54	
4249	AABR07002119.1	1.45	0	0.37	0	0.54	
4250	AABR07002623.2	1.45	30	19.25	28	27.98	
4251	AABR07003537.1	1.45	6	4.07	7	5.92	
4252	AABR07003751.1	1.45	4	0.48	2	0.7	
4253	AABR07006258.1	1.45	0	0.49	0	0.71	
4254	AABR07008097.1	1.45	1	0.21	0	0.3	
4255	AABR07008462.1	1.45	0	0.05	1	0.07	
4256	AABR07010144.1	1.45	0	0.06	0	0.08	
4257	AABR07010575.1	1.45	1	0.58	1	0.84	
4258	AABR07013464.1	1.45	1	0.12	3	0.17	
4259	AABR07014265.1	1.45	0	0.25	1	0.36	
4260	AABR07014272.1	1.45	1	0.25	1	0.36	
4261	AABR07014275.1	1.45	1	0.24	0	0.35	

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4262	AABR07014974.1	1.45	2	1.57	2	2.28	
4263	AABR07015608.1	1.45	0	4.41	0	6.41	
4264	AABR07015956.1	1.45	21	2.56	19	3.72	
4265	AABR07016779.1	1.45	1	0.78	0	1.13	
4266	AABR07026557.2	1.45	10	0.17	4	0.24	
4267	AABR07026969.1	1.45	10	0.4	9	0.58	
4268	AABR07032255.1	1.45	0	0.7	0	1.01	
4269	AABR07035375.1	1.45	0	0.33	0	0.49	
4270	AABR07037356.1	1.45	1	0.21	2	0.31	
4271	AABR07040624.1	1.45	14	11.4	13	16.57	
4272	AABR07041709.1	1.45	1	0.17	2	0.24	
4273	AABR07042904.1	1.45	1	0.28	0	0.41	
4274	AABR07042937.1	1.45	0	1	0	1.45	
4275	AABR07044049.1	1.45	10	0.08	22	0.12	
4276	AABR07044362.1	1.45	15	0.7	12	1.02	
4277	AABR07045405.1	1.45	4	1.15	5	1.68	
4278	AABR07050487.1	1.45	3	0.1	3	0.15	
4279	AABR07052441.1	1.45	4	0.1	7	0.14	
4280	AABR07052458.1	1.45	2	0.29	1	0.42	
4281	AABR07054983.2	1.45	5	0.58	3	0.85	
4282	AABR07056200.1	1.45	1	0.14	1	0.2	
4283	AABR07058914.1	1.45	1	0.16	1	0.23	
4284	AABR07060291.1	1.45	1	3.61	1	5.25	
4285	AABR07061825.1	1.45	1	1.03	1	1.49	
4286	AABR07064099.1	1.45	0	0.61	0	0.88	
4287	AABR07067388.1	1.45	2	1.03	2	1.49	
4288	AABR07068030.1	1.45	0	0.85	0	1.23	
4289	AABR07068674.1	1.45	1	0.08	1	0.12	
4290	AABR07072639.1	1.45	6	0.79	5	1.15	
4291	Aatk	1.45	3	0.05	3	0.07	
4292	AC094421.1	1.45	0	0.52	0	0.75	
4293	AC097037.2	1.45	1	1.4	1	2.03	
4294	AC107446.2	1.45	0	0.28	0	0.4	
4295	AC120448.1	1.45	1	1.95	1	2.83	
4296	AC128792.2	1.45	17	1.51	3	2.19	
4297	AC128967.1	1.45	1	0.41	4	0.6	
4298	AC130391.2	1.45	0	1.81	0	2.62	
4299	AC135400.1	1.45	5	4.47	5	6.49	
4300	AC139445.1	1.45	0	0.15	0	0.22	
4301	AC139950.1	1.45	1	0.15	0	0.21	
4302	Acot13	1.45	19	1.63	11	2.37	
4303	Actl7b	1.45	3	0.54	3	0.78	
4304	Adam7	1.45	2	0.07	11	0.1	
4305	Adat1	1.45	24	0.94	31	1.36	
4306	Add2	1.45	268	0.06	296	0.08	
4307	Adgre1	1.45	6	0.08	4	0.11	
4308	Adora2b	1.45	2	0.13	9	0.2	
4309	Agmat	1.45	2	0.17	4	0.24	
4310	Agxt2	1.45	1	0.11	2	0.16	
4311	Alpl	1.45	8	0.61	9	0.89	
4312	Amz2	1.45	135	10.01	137	14.54	
4313	Ankrd16	1.45	42	1.34	25	1.95	
4314	Anlnl1	1.45	0	0.09	0	0.12	
4315	Aqp2	1.45	1	0.07	1	0.1	

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4316	Arhgap30	1.45	4	0.07	3	0.1	
4317	Aurkb	1.45	45	2.32	43	3.37	
4318	AY172581.1	1.45	1	3.89	1	5.66	
4319	AY172581.5	1.45	1	3.66	1	5.32	
4320	B4galnt1	1.45	2	0.09	1	0.14	
4321	Bag5	1.45	0	0.29	0	0.43	
4322	Bpifb6	1.45	1	0.44	1	0.65	
4323	C4a_1	1.45	0	0.14	0	0.2	
4324	C5ar2	1.45	3	0.2	1	0.28	
4325	Cabyr	1.45	11	0.24	14	0.35	
4326	Cage1	1.45	6	0.09	7	0.13	
4327	Cby1	1.45	19	6.43	18	9.34	
4328	Ccdc101	1.45	55	7.47	58	10.86	
4329	Ccdc117	1.45	54	4.42	44	6.42	
4330	Ccdc180	1.45	6	0.05	1	0.07	
4331	Ccdc51	1.45	22	2.16	32	3.14	
4332	Ccdc64b	1.45	1	0.04	0	0.06	
4333	Ccdc71l	1.45	5	1.91	5	2.78	
4334	Ccdc88b	1.45	2	0.04	2	0.06	
4335	Ccnt1	1.45	27	8.63	27	12.54	
4336	Cd300a	1.45	1	0.25	2	0.37	
4337	Cd4	1.45	1	0.14	1	0.21	
4338	Cdh22	1.45	4	0.1	6	0.15	
4339	Cdh8	1.45	14	0.09	10	0.13	
4340	Cdkl2	1.45	17	0.82	19	1.2	
4341	Cep78	1.45	32	2.35	31	3.42	
4342	Cfap97	1.45	43	2.2	43	3.2	
4343	Chrn4	1.45	3	0.29	4	0.42	
4344	Chtop	1.45	0	0.31	0	0.45	
4345	Cideb	1.45	3	0.2	2	0.29	
4346	Clic5	1.45	12	0.36	18	0.53	
4347	Cmss1	1.45	2	0.51	5	0.75	
4348	Cnm1	1.45	8	0.36	8	0.52	
4349	Cnm4	1.45	78	3.73	76	5.42	
4350	Col11a2	1.45	2	0.04	1	0.06	
4351	Col15a1	1.45	0	0.06	0	0.09	
4352	Col6a1	1.45	4	0.24	4	0.35	
4353	Col6a6	1.45	3	0.07	7	0.11	
4354	Cox6a2	1.45	1	0.52	1	0.76	
4355	Crct1	1.45	2	1.64	2	2.39	
4356	Crhr2	1.45	1	0.08	2	0.12	
4357	Csmd3	1.45	27	0.33	36	0.47	
4358	Ctnnd2	1.45	24	0.05	14	0.08	
4359	Cyba	1.45	8	2.27	9	3.3	
4360	Cycs_2	1.45	0	1.57	0	2.28	
4361	Cyp2j10	1.45	319	0.38	176	0.56	
4362	Dab1	1.45	11	0.04	14	0.06	
4363	Dhrs7l1	1.45	29	0.09	25	0.13	
4364	Dnase1l2	1.45	3	0.6	2	0.87	
4365	Dusp9	1.45	1	0.1	1	0.14	
4366	Ebf1	1.45	12	0.07	13	0.11	
4367	Eid2	1.45	4	1.41	4	2.05	
4368	Eif3h_2	1.45	0	1.29	0	1.88	
4369	Eln	1.45	4	0.07	2	0.1	

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	A	B	C	D	E	F	G
4370	Fam105a	1.45	3	0.33	5	0.48	
4371	Fam124a	1.45	28	0.68	20	0.98	
4372	Fam83g	1.45	0	0.09	0	0.13	
4373	Fbxo5	1.45	33	3.15	33	4.58	
4374	Fdxacb1	1.45	33	3.27	32	4.75	
4375	Fggy	1.45	55	3.87	70	5.62	
4376	Fkbp1b	1.45	16	1.34	9	1.94	
4377	Fndc4	1.45	19	3.33	19	4.84	
4378	Fndc5	1.45	5	0.46	4	0.66	
4379	Foxp3	1.45	4	0.07	6	0.1	
4380	Fsd1	1.45	5	0.21	5	0.31	
4381	Fuom	1.45	1	0.11	0	0.16	
4382	Gcc1	1.45	76	5.36	76	7.79	
4383	Gcgr	1.45	2	0.13	2	0.19	
4384	Gcnt2	1.45	7	0.04	4	0.06	
4385	Ggct	1.45	11	1.43	10	2.08	
4386	Ggn	1.45	8	0.41	9	0.6	
4387	Gm5611	1.45	0	0.68	1	0.99	
4388	Gm9905	1.45	1	0.41	1	0.59	
4389	Gpihbp1	1.45	1	0.3	1	0.44	
4390	Gpr155	1.45	9	0.3	7	0.44	
4391	Gpr165	1.45	2	0.12	3	0.18	
4392	Grin2c	1.45	3	0.05	1	0.08	
4393	Gsto2_2	1.45	1	0.49	0	0.71	
4394	Guca2a	1.45	3	0.27	1	0.4	
4395	H1foo	1.45	2	0.43	2	0.63	
4396	Hbb	1.45	0	0.38	1	0.55	
4397	Hist1h4b_4	1.45	2	1.6	2	2.32	
4398	Hist2h2ac	1.45	0	0.66	1	0.96	
4399	Hist3h2bb	1.45	0	0.33	0	0.48	
4400	Hs6st2	1.45	21	0.25	20	0.37	
4401	Hs6st3	1.45	2	0.7	2	1.01	
4402	Ifit2	1.45	4	0.15	2	0.21	
4403	Igfbp3	1.45	3	0.21	3	0.3	
4404	Ina	1.45	2	0.05	1	0.08	
4405	Irf8	1.45	1	0.09	1	0.13	
4406	Irg1	1.45	1	0.1	2	0.15	
4407	Izumo1	1.45	2	0.17	1	0.25	
4408	Kcnd1	1.45	8	0.54	10	0.78	
4409	Kcnip3	1.45	5	0.4	8	0.58	
4410	Kcnj8	1.45	1	0.1	1	0.14	
4411	Kcnj9	1.45	3	0.2	3	0.29	
4412	Kcnv2	1.45	2	0.05	2	0.07	
4413	Kctd14	1.45	9	0.92	7	1.34	
4414	Kifc2	1.45	8	0.65	10	0.94	
4415	Kihl3	1.45	5	0.53	16	0.78	
4416	Klk5l_2	1.45	0	0.36	0	0.52	
4417	Lmo4	1.45	197	15.21	184	22.1	
4418	LOC100174910	1.45	35	2.08	35	3.02	
4419	LOC100360056_2	1.45	0	14.98	0	21.76	
4420	LOC100360499	1.45	0	1.22	0	1.77	
4421	LOC100361079	1.45	0	1.64	0	2.39	
4422	LOC100361475	1.45	0	1.16	0	1.68	
4423	LOC100361476	1.45	0	0.35	1	0.51	

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4424	LOC100363068_1	1.45	0	1.12	0	1.63	
4425	LOC100909688	1.45	12	1.68	10	2.44	
4426	LOC100909776	1.45	1	0.25	3	0.36	
4427	LOC100910109	1.45	0	3.23	0	4.69	
4428	LOC100910152	1.45	2	5.16	3	7.5	
4429	LOC100910526_2	1.45	0	0.08	1	0.12	
4430	LOC102550729	1.45	2	3.89	2	5.66	
4431	LOC102555727	1.45	0	0.24	0	0.35	
4432	LOC678817	1.45	1	0.13	2	0.19	
4433	LOC681338	1.45	0	0.66	0	0.96	
4434	LOC684762	1.45	1	1.82	2	2.64	
4435	LOC685431_1	1.45	0	0.72	2	1.05	
4436	LOC687441	1.45	1	0.15	1	0.21	
4437	Lrrc46	1.45	3	0.59	4	0.86	
4438	Map6d1	1.45	1	0.19	2	0.27	
4439	Mapk10	1.45	12	0.09	7	0.13	
4440	Mat1a	1.45	4	0.15	2	0.22	
4441	Mcoln3	1.45	2	0.15	2	0.22	
4442	Mettl23	1.45	18	4.41	26	6.42	
4443	Mmp9	1.45	1	0.08	1	0.11	
4444	Mn1	1.45	2	0.06	5	0.09	
4445	Morn3	1.45	1	0.27	3	0.39	
4446	Mos	1.45	2	0.49	2	0.71	
4447	Mroh4	1.45	2	0.07	2	0.1	
4448	Mrps36_1	1.45	44	4.45	46	6.46	
4449	Murc	1.45	3	0.06	1	0.09	
4450	Myb	1.45	6	0.45	7	0.65	
4451	Myo5b	1.45	5	0.06	12	0.09	
4452	Nalcn	1.45	8	0.05	5	0.07	
4453	Nckap5	1.45	14	0.08	32	0.12	
4454	Nek1	1.45	57	1.6	57	2.33	
4455	Neu2	1.45	1	0.14	4	0.2	
4456	Neurl1b	1.45	4	0.3	3	0.44	
4457	Nfatc4	1.45	12	0.5	14	0.72	
4458	Nlrc3	1.45	7	0.07	11	0.11	
4459	Nlrp14	1.45	6	0.48	8	0.69	
4460	Nlrp4	1.45	2	0.07	1	0.1	
4461	Nox1	1.45	4	0.1	2	0.14	
4462	Nr2f1	1.45	3	0.1	2	0.15	
4463	Nrcam	1.45	1	0.03	2	0.05	
4464	Nxpe4_1	1.45	2	0.32	2	0.47	
4465	Odf4	1.45	2	0.17	2	0.25	
4466	Orc1	1.45	34	1.27	34	1.84	
4467	P3h3	1.45	298	30.28	309	44.01	
4468	Pak2_2	1.45	0	0.25	0	0.37	
4469	Parvb	1.45	11	0.46	12	0.67	
4470	Pcsk9	1.45	5	0.22	5	0.33	
4471	Pctp	1.45	11	1.04	12	1.51	
4472	Pcyt1b	1.45	18	0.75	11	1.09	
4473	Pdzd9	1.45	2	0.21	3	0.31	
4474	Phactr4	1.45	104	4.74	110	6.89	
4475	Pigc	1.45	1	3.64	0	5.29	
4476	Pigl	1.45	60	1.26	52	1.83	
4477	Pigv	1.45	62	3	64	4.37	

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4478	Pkd112	1.45	3	0.03	5	0.05	
4479	Pkp1	1.45	4	0.05	2	0.08	
4480	Pla2r1	1.45	42	1.02	32	1.48	
4481	Plg	1.45	4	0.08	1	0.11	
4482	Polg2	1.45	20	1.73	18	2.51	
4483	Prkcz	1.45	8	0.14	6	0.2	
4484	Prrt2	1.45	1	0.1	2	0.15	
4485	Prrt3	1.45	4	0.33	4	0.48	
4486	Prss53	1.45	12	0.5	13	0.73	
4487	Psd4	1.45	1	0.05	4	0.08	
4488	Pttg1ip	1.45	756	70.75	751	102.8	
4489	Pwwp2b	1.45	23	1.23	20	1.78	
4490	Pygl	1.45	28	1.47	24	2.14	
4491	Rab6b	1.45	9	0.32	10	0.46	
4492	Rdm1	1.45	18	1.44	20	2.09	
4493	Rfc4	1.45	47	8	43	11.63	
4494	Rfxap_1	1.45	0	3.96	0	5.75	
4495	RGD1306186	1.45	1	0.13	3	0.19	
4496	RGD1306739	1.45	3	0.19	5	0.28	
4497	RGD1306746	1.45	72	4.92	74	7.15	
4498	RGD1308117	1.45	18	1.8	23	2.61	
4499	RGD1311251	1.45	1	0.18	2	0.26	
4500	RGD1359508	1.45	8	1.09	8	1.59	
4501	RGD1559972	1.45	0	1.73	0	2.51	
4502	RGD1560207	1.45	3	0.18	4	0.26	
4503	RGD1560436	1.45	7	0.92	8	1.34	
4504	RGD1561118	1.45	2	1.68	2	2.44	
4505	RGD1561636	1.45	0	1.17	0	1.7	
4506	RGD1563835	1.45	0	0.61	0	0.89	
4507	RGD1565415	1.45	2	1.11	1	1.62	
4508	RGD1565472	1.45	0	0.52	0	0.75	
4509	RGD1565767	1.45	2	0.81	2	1.18	
4510	RGD1566386	1.45	10	0.49	19	0.72	
4511	RGD735029	1.45	105	9.13	97	13.26	
4512	Rhebl1	1.45	6	1.05	7	1.53	
4513	Riiad1	1.45	3	0.56	7	0.81	
4514	Rn60_13_0847.2	1.45	0	0.35	0	0.51	
4515	Rn60_17_0453.2	1.45	6	0.12	10	0.17	
4516	Rn60_5_1607.1	1.45	3	1.18	2	1.72	
4517	Rn60_9_0975.2	1.45	2	0.61	2	0.88	
4518	Rn60_X_0646.2	1.45	3	0.42	2	0.62	
4519	Rnf113a1	1.45	0	1.54	0	2.24	
4520	Rnf8	1.45	78	4.19	59	6.09	
4521	Rpl5l1	1.45	2	1.68	4	2.44	
4522	Rrp36	1.45	31	7.15	27	10.39	
4523	Rtkn	1.45	0	0.19	0	0.28	
4524	Samd15	1.45	13	0.13	4	0.19	
4525	Sass6_2	1.45	8	1.5	10	2.18	
4526	Scn5a	1.45	5	0.03	5	0.04	
4527	Scn7a	1.45	3	0.15	4	0.21	
4528	Sec16b	1.45	6	0.29	7	0.42	
4529	Sema5b	1.45	7	0.3	7	0.44	
4530	Sept1	1.45	2	0.35	3	0.51	
4531	Serpib9d	1.45	1	0.23	2	0.33	

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4532	Sfrp2	1.45	1	0.11	1	0.15	
4533	Sfxn2	1.45	19	1.93	21	2.8	
4534	Sh3d21	1.45	8	0.26	7	0.38	
4535	Sh3pxd2b	1.45	16	0.54	10	0.79	
4536	Siglec1	1.45	1	0.03	1	0.05	
4537	Slc14a2_1	1.45	1	0.09	1	0.12	
4538	Slc16a11	1.45	3	0.26	2	0.38	
4539	Slc18b1	1.45	27	1.89	30	2.74	
4540	Slc25a48	1.45	1	0.27	1	0.39	
4541	Slc30a6	1.45	69	4.12	66	5.99	
4542	Slc35b4	1.45	175	9.97	164	14.49	
4543	Slc35e3	1.45	182	11.87	148	17.24	
4544	Smlr1	1.45	40	0.44	49	0.64	
4545	SNORA16_1	1.45	0	7.33	0	10.65	
4546	SNORA30_2	1.45	0	1.86	0	2.7	
4547	SNORA42_12	1.45	3	5.58	3	8.11	
4548	SNORA52_1	1.45	0	1.86	0	2.7	
4549	SNORD18_1	1.45	0	3.66	0	5.32	
4550	SNORD36_2	1.45	0	6.08	0	8.83	
4551	SNORD41	1.45	0	3.56	0	5.17	
4552	SNORD65_1	1.45	3	10.38	3	15.09	
4553	SNORD95_2	1.45	0	3.66	0	5.32	
4554	Sox5	1.45	280	5.9	263	8.57	
4555	Spata25	1.45	3	0.47	4	0.69	
4556	Spata33	1.45	29	0.89	17	1.3	
4557	Spc24	1.45	26	5.76	27	8.37	
4558	Srpx2	1.45	2	0.12	1	0.17	
4559	Stk32a	1.45	7	0.1	4	0.14	
4560	Stmn2	1.45	5	0.12	2	0.18	
4561	Strip2	1.45	3	0.1	3	0.14	
4562	Sumf2	1.45	61	5.8	59	8.43	
4563	Supt4h1	1.45	101	16.74	92	24.32	
4564	Syn1	1.45	119	0.31	114	0.46	
4565	Syt14	1.45	20	0.12	13	0.17	
4566	Tab1	1.45	134	9.43	140	13.7	
4567	Tcerg1l	1.45	9	0.14	5	0.2	
4568	Tdh	1.45	2	0.16	4	0.23	
4569	Tepp	1.45	23	0.79	23	1.15	
4570	Tex26	1.45	18	0.57	10	0.84	
4571	Thbs4	1.45	3	0.15	3	0.22	
4572	Tmc6	1.45	27	1.9	28	2.77	
4573	Tmem251	1.45	2	1.52	2	2.21	
4574	Tmem39b	1.45	86	6.9	87	10.03	
4575	Tmem74	1.45	1	0.27	1	0.39	
4576	Tshz2	1.45	51	4.16	51	6.05	
4577	Ttc39a	1.45	0	0.13	0	0.19	
4578	Tuba3a	1.45	1	0.16	1	0.24	
4579	Unc13a	1.45	13	0.43	12	0.63	
4580	Urad	1.45	1	0.49	1	0.71	
4581	Vgll4	1.45	194	20.39	182	29.63	
4582	Wdpcp	1.45	81	1.72	55	2.5	
4583	Wdr27	1.45	9	0.35	15	0.51	
4584	Wee2	1.45	4	0.15	12	0.22	
4585	Zc2hc1c	1.45	2	0.13	2	0.18	

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4586	Zfp14	1.45	0	0.33	0	0.48	
4587	Zfp146	1.45	0	1.42	0	2.06	
4588	Zfp428	1.45	10	1.05	8	1.53	
4589	Zfp438	1.45	13	0.43	14	0.62	
4590	Zfp78	1.45	3	0.32	2	0.47	
4591	Zfp791	1.45	1	0.13	3	0.19	
4592	Zglp1	1.45	5	0.62	3	0.9	
4593	Zscan30	1.45	28	2.2	20	3.2	
4594	Lrp1	1.45	2893	48.53	2903	70.43	
4595	Riok3	1.45	545	21.01	530	30.43	
4596	Synj2bp	1.45	260	9.22	251	13.33	
4597	Atxn10	1.45	639	80.39	646	116.22	
4598	Ctdnep1	1.45	221	32.66	206	47.22	
4599	R3hdm4	1.45	63	23.12	89	33.42	
4600	Uhrf1	1.45	187	11.76	185	17	
4601	Ccar2	1.45	387	24.92	377	36.01	
4602	Psap	1.44	1338	127.2	1324	183.71	
4603	Tbc1d2b	1.44	192	6.59	183	9.52	
4604	Cdkn1b	1.44	197	19.59	177	28.26	
4605	Mbd1	1.44	258	13.94	225	20.11	
4606	Setd1b	1.44	156	5.74	149	8.28	
4607	H2afy2	1.44	172	17.6	192	25.39	
4608	Spg21	1.44	151	20.08	143	28.97	
4609	Dstyk	1.44	153	5.42	147	7.82	
4610	Limd2	1.44	131	28.07	127	40.48	
4611	Gna13	1.44	406	16.1	405	23.21	
4612	Npdc1	1.44	235	23.35	196	33.67	
4613	Zfp46	1.44	116	6.42	114	9.25	
4614	Trim5	1.44	167	9.66	182	13.91	
4615	Tsnax	1.44	276	23.43	264	33.74	
4616	Zfp862	1.44	138	7.69	139	11.06	
4617	Mapk8ip1	1.44	102	8.08	97	11.62	
4618	Lonrf2	1.44	417	14.13	406	20.32	
4619	C4a_2	1.44	7	4.11	10	5.91	
4620	Cd276	1.44	316	13.43	303	19.3	
4621	Poglut1	1.44	202	12.98	193	18.64	
4622	Dis3l2	1.44	201	6.72	242	9.65	
4623	Pex1	1.44	121	4.68	106	6.72	
4624	Ppp1r37	1.43	197	13.42	173	19.26	
4625	Rb1	1.43	174	6.13	155	8.8	
4626	Lsr	1.43	685	72.62	673	104.14	
4627	AABR07067267.1	1.43	26	6.97	29	10	
4628	Selo	1.43	155	15.19	182	21.78	
4629	Cnep1r1	1.43	123	16.52	100	23.69	
4630	Litaf	1.43	107	8.24	91	11.81	
4631	Ucp2	1.43	820	125.51	806	179.91	
4632	Jmjd8	1.43	56	8.03	51	11.51	
4633	Pigq	1.43	155	12.03	162	17.25	
4634	Qdpr	1.43	78	13.3	72	19.06	
4635	Thap11	1.43	71	9.73	70	13.94	
4636	Gtpbp1	1.43	174	13.27	160	19.01	
4637	Ppp1cc	1.43	596	50.39	575	72.18	
4638	Xiap	1.43	85	6.81	82	9.76	
4639	Mfge8	1.43	1882	211.5	1844	302.88	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
4640	Ccndbp1	1.43	78	10.8	78	15.47	
4641	Hdac3	1.43	169	19.1	158	27.36	
4642	Zfp68	1.43	157	7.34	152	10.52	
4643	Mcm3ap	1.43	315	10.53	308	15.08	
4644	Cd47	1.43	340	31.72	322	45.41	
4645	Pnpt1	1.43	169	9.41	160	13.47	
4646	Rab18	1.43	183	27.64	169	39.54	
4647	Src	1.43	205	13.68	196	19.58	
4648	Tmem237	1.43	94	2.99	92	4.28	
4649	Tubgcp2	1.43	295	22.48	295	32.16	
4650	Cdt1	1.43	66	7.01	65	10.03	
4651	Hmgn2	1.43	307	86.98	306	124.33	
4652	Rad50	1.43	147	5.83	141	8.33	
4653	Fpgt	1.43	113	3.1	66	4.43	
4654	Ift52	1.43	131	12.97	131	18.53	
4655	Itpr3	1.43	66	1.67	63	2.39	
4656	Chpf	1.43	358	29.9	350	42.7	
4657	Siae	1.43	80	4.18	65	5.96	
4658	Ncapd3	1.43	155	5.45	158	7.79	
4659	Aip	1.43	122	13.28	121	18.96	
4660	Diexf	1.43	85	4.76	75	6.8	
4661	Dnal4	1.43	60	9.42	67	13.45	
4662	Ncoa1	1.43	277	7.82	284	11.16	
4663	Dpy30	1.43	77	17.41	75	24.84	
4664	Eya1	1.43	105	7.61	143	10.86	
4665	Tmem184b	1.43	317	20.34	303	29.01	
4666	Rimklb	1.43	59	23.04	59	32.86	
4667	LOC100363043	1.43	113	24.36	107	34.72	
4668	Pnpla8	1.43	118	11.22	121	16	
4669	Plxna1	1.43	759	20.49	734	29.21	
4670	Slc29a3	1.43	111	6.56	109	9.34	
4671	ldh3g	1.42	212	38.16	213	54.38	
4672	Rapgef1	1.42	309	15.1	281	21.5	
4673	LOC100294508	1.42	457	23.4	447	33.33	
4674	Poc1b	1.42	177	4.17	135	5.93	
4675	Fam160a1	1.42	61	6.16	87	8.76	
4676	Lrrc8c	1.42	422	12.15	390	17.29	
4677	B3glct	1.42	89	6.91	89	9.83	
4678	Fam210a	1.42	161	3.84	161	5.46	
4679	Igfbp1	1.42	90	4.63	97	6.59	
4680	Wrap53	1.42	64	6.46	68	9.19	
4681	Ddit4l2	1.42	251	65.22	240	92.74	
4682	Slc35f6	1.42	150	11.7	144	16.64	
4683	Arpin	1.42	57	3	50	4.26	
4684	Hira	1.42	13	10.17	21	14.46	
4685	Frg1	1.42	36	10.3	50	14.64	
4686	Setdb1	1.42	257	11.89	279	16.9	
4687	Nr1h2	1.42	240	28.3	240	40.23	
4688	Emc3	1.42	330	39.52	317	56.13	
4689	Smug1	1.42	46	3.22	46	4.58	
4690	Xxyt1	1.42	64	9.3	66	13.21	
4691	Pdia4	1.42	850	89.33	821	126.86	
4692	LOC361635	1.42	356	23.7	335	33.65	
4693	Tspyl1	1.42	130	12.76	127	18.11	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
4694	Prkd3	1.42	252	13.57	248	19.27	
4695	Lrrc41	1.42	673	50.63	637	71.85	
4696	Foxp4	1.42	126	5.06	116	7.18	
4697	Tp53inp1	1.42	145	20.8	126	29.52	
4698	Amdhd2	1.42	56	7.11	55	10.08	
4699	H1fx	1.42	42	18.07	41	25.64	
4700	RGD1311805	1.42	160	13.97	142	19.81	
4701	Gigyf1	1.42	138	7.84	124	11.12	
4702	Nfyc	1.42	241	20.44	315	28.99	
4703	Sec61a2	1.42	191	8.49	182	12.04	
4704	Exoc4	1.42	251	8.61	294	12.21	
4705	Foxn3	1.42	250	8.02	247	11.37	
4706	Thtpa	1.42	120	12.13	115	17.19	
4707	Aprt	1.42	85	37.17	85	52.68	
4708	Rpl34-ps1	1.42	63	47.27	60	66.99	
4709	Rab34	1.42	252	53.03	249	75.15	
4710	Rsbn1l	1.42	114	5.8	110	8.22	
4711	RGD735065	1.42	157	22.09	154	31.28	
4712	Ctns	1.42	75	4.83	50	6.85	
4713	Zfp292	1.42	261	5.83	271	8.25	
4714	Hsp90aa1	1.41	0	4.3	0	6.08	
4715	Def8	1.41	91	6.05	84	8.56	
4716	Eil	1.41	179	7.91	147	11.2	
4717	ENSRNOG00000050	1.41	161	7.43	164	10.5	
4718	Mau2	1.41	466	10.96	442	15.5	
4719	Rnaset2	1.41	94	23.55	84	33.3	
4720	Sphk2	1.41	119	11.61	112	16.42	
4721	Gtf2h3	1.41	46	4.38	46	6.19	
4722	Chd9	1.41	321	6.79	340	9.59	
4723	Zscan26	1.41	228	10.91	224	15.41	
4724	Acadsb	1.41	57	4.4	66	6.21	
4725	Pde8a	1.41	694	38.06	558	53.74	
4726	Dlg4	1.41	99	5.48	85	7.74	
4727	Ints1_2	1.41	7	6.96	7	9.84	
4728	Zfp868	1.41	63	6.86	48	9.68	
4729	Peli1	1.41	54	3.66	38	5.17	
4730	Zc3h4	1.41	392	14.73	378	20.78	
4731	Nufip1	1.41	180	8.85	141	12.49	
4732	Slc19a1	1.41	45	3.41	39	4.8	
4733	Slc26a6	1.41	50	2.35	49	3.31	
4734	G6pdx	1.41	629	63.44	622	89.45	
4735	Pbx2	1.41	63	17.04	72	24.02	
4736	Lrig2	1.41	102	3.62	83	5.11	
4737	Stx8	1.41	104	9.78	90	13.78	
4738	Atg14	1.41	95	4.64	80	6.54	
4739	Tssc4	1.41	79	11.73	73	16.52	
4740	Xpnpep3	1.41	117	3.72	113	5.24	
4741	Pxmp4	1.41	40	5.8	35	8.17	
4742	RGD1306063	1.41	78	6.79	75	9.56	
4743	Rn60_14_1002.4	1.41	7	5.14	10	7.24	
4744	Caprin2	1.41	49	2.58	49	3.63	
4745	Dpp3	1.41	377	24.46	277	34.43	
4746	Kbtbd2	1.41	233	13.93	217	19.61	
4747	Mocs3	1.41	32	4.09	31	5.76	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
4748	Slc12a9	1.41	35	2.44	36	3.43	
4749	Msantd4	1.41	96	8.08	93	11.37	
4750	Wiz	1.41	379	17.68	331	24.87	
4751	Gata6	1.41	583	50.23	530	70.64	
4752	Sh3kbp1	1.41	45	2.18	55	3.07	
4753	Trim39	1.41	78	3.05	79	4.29	
4754	Ampd2	1.41	164	9.98	158	14.02	
4755	Ppa2	1.41	75	9.54	77	13.41	
4756	Tspan13	1.41	65	7.83	71	11.01	
4757	Rnf187	1.41	258	32.02	250	45	
4758	Snopc5	1.4	31	6.26	29	8.79	
4759	Coro7	1.4	106	6.82	92	9.57	
4760	Mtmr1	1.4	177	10.57	171	14.84	
4761	Tiam2	1.4	130	3.8	122	5.34	
4762	Epm2aip1	1.4	383	13.05	370	18.33	
4763	Dhx30	1.4	338	18.81	339	26.42	
4764	Cc2d1b	1.4	165	11.08	153	15.56	
4765	Akap8l	1.4	98	7.04	106	9.88	
4766	Pard3	1.4	546	10.96	584	15.38	
4767	Cbfa2t2	1.4	160	8.44	167	11.84	
4768	Pef1	1.4	134	17.35	123	24.35	
4769	Fzd2	1.4	146	19.04	139	26.71	
4770	Golga1	1.4	98	3.22	93	4.52	
4771	Ikzf5	1.4	17	2.6	20	3.65	
4772	LOC103689982	1.4	17	6.32	23	8.87	
4773	Mocs1	1.4	59	4.58	80	6.42	
4774	Txn2	1.4	198	37.99	189	53.28	
4775	Trmt112	1.4	89	37.03	83	51.9	
4776	Cnot2	1.4	245	21.61	222	30.28	
4777	Gbp2	1.4	117	11.25	112	15.76	
4778	Kat8	1.4	103	9.26	85	12.97	
4779	Ehmt2	1.4	484	27.17	483	38.07	
4780	Entpd4	1.4	136	8.8	135	12.32	
4781	Parn	1.4	115	5.97	118	8.36	
4782	Suclg2	1.4	387	37.28	400	52.21	
4783	Stat5b	1.4	131	10.16	122	14.22	
4784	Usp33	1.4	446	16.08	374	22.51	
4785	AABR07051400.1	1.4	39	8.04	37	11.25	
4786	Ngly1	1.4	151	8.13	121	11.37	
4787	Rbm28	1.4	111	5	107	7	
4788	Smap2	1.4	101	6.55	87	9.16	
4789	Med7	1.4	28	5.53	31	7.72	
4790	Zbtb25	1.4	47	2.42	59	3.38	
4791	Zfp639	1.4	58	8.89	56	12.42	
4792	Psip1	1.4	327	10.17	257	14.2	
4793	Ecm1	1.4	207	25.79	199	36	
4794	Gfer	1.4	82	15.43	72	21.54	
4795	Ggcx	1.4	253	13.3	226	18.55	
4796	Fen1	1.39	40	5.74	42	8	
4797	Poll	1.39	49	5.43	50	7.57	
4798	Puf60	1.39	419	48.36	383	67.47	
4799	Med22_1	1.39	0	14.02	0	19.56	
4800	Cbfb	1.39	246	17.09	226	23.83	
4801	Milt6	1.39	164	8.25	160	11.5	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
4802	Nono	1.39	1009	80.05	968	111.61	
4803	Fbxo9	1.39	122	8.7	102	12.13	
4804	Shkbp1	1.39	55	4.83	54	6.73	
4805	LOC100911274	1.39	83	13.37	79	18.64	
4806	Tymp	1.39	113	7.74	90	10.78	
4807	Zbtb24	1.39	95	4.83	97	6.72	
4808	Prkar1a	1.39	914	142.83	820	198.96	
4809	Ccdc59	1.39	33	3.22	28	4.49	
4810	Esco2	1.39	14	1.73	17	2.41	
4811	Gpd1l	1.39	112	6.23	94	8.68	
4812	Trex1	1.39	25	5.87	23	8.17	
4813	Arl13b	1.39	130	3.32	98	4.62	
4814	Brat1	1.39	19	1.69	16	2.36	
4815	Trafd1	1.39	211	16.04	180	22.32	
4816	Dgat1	1.39	110	10.13	90	14.09	
4817	Tbck	1.39	75	1.9	67	2.64	
4818	Adpgk	1.39	259	20.29	248	28.22	
4819	Naa60	1.39	30	10.04	27	13.97	
4820	Zkscan3	1.39	156	9.87	140	13.72	
4821	Eefsec	1.39	68	4.3	74	5.98	
4822	Naf1	1.39	30	1.04	31	1.45	
4823	Vps25	1.39	1	2.47	0	3.44	
4824	Zfp354a	1.39	29	2.05	21	2.84	
4825	C2cd5	1.39	71	2.49	75	3.46	
4826	Dtd2	1.39	26	4.39	26	6.11	
4827	Gsdmd	1.39	160	20.33	153	28.24	
4828	Atpaf1	1.39	87	3.96	77	5.5	
4829	Mrpl22	1.39	90	20.32	82	28.22	
4830	Vps45	1.39	100	8.49	85	11.79	
4831	Exosc4	1.39	53	6.24	50	8.66	
4832	Ubn2	1.39	296	8.74	261	12.14	
4833	Lig4	1.39	120	6.95	107	9.64	
4834	Mbtps2	1.39	115	2.69	96	3.74	
4835	Zdhhc15	1.39	38	1.9	35	2.64	
4836	G4	1.39	44	5.05	43	7	
4837	Lym9	1.39	26	3.48	25	4.83	
4838	Mfsd7b	1.39	46	3.09	40	4.29	
4839	Pros1	1.39	895	60.79	839	84.32	
4840	Ece1	1.39	1391	71.6	1318	99.3	
4841	Mknk2	1.39	328	22.08	301	30.6	
4842	Tbc1d13	1.39	118	10.21	120	14.15	
4843	Pcnt	1.39	185	3.98	178	5.52	
4844	Bbs1	1.39	46	2.57	43	3.56	
4845	Tor1aip2_2	1.39	209	25.17	186	34.86	
4846	Fbxl18	1.38	31	1.26	36	1.74	
4847	Jph1	1.38	35	1.17	31	1.62	
4848	Ppp1r3c	1.38	63	5.66	60	7.84	
4849	RGD1309594	1.38	24	2.93	24	4.05	
4850	Smarcd2	1.38	271	22.06	247	30.51	
4851	Prpf19	1.38	591	68.24	556	94.37	
4852	Helb	1.38	63	3.38	49	4.67	
4853	Cpsf6	1.38	507	13.63	458	18.84	
4854	Tbc1d5	1.38	322	10.01	364	13.83	
4855	Emc7	1.38	117	22.49	103	31.1	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
4856	Rnf144b	1.38	83	2.04	64	2.81	
4857	RGD1562218	1.38	184	10.18	163	14.06	
4858	Phldb1	1.38	758	27.9	690	38.56	
4859	Zranb2	1.38	330	23.39	321	32.32	
4860	Gmppa	1.38	87	11.11	87	15.34	
4861	Cops8	1.38	184	25.34	152	35	
4862	Chmp2b	1.38	111	10.59	104	14.62	
4863	Uimc1	1.38	168	8.69	183	12	
4864	Smg6	1.38	240	4.46	217	6.16	
4865	Paip2	1.38	66	40.55	50	55.99	
4866	Snx19	1.38	236	10	229	13.8	
4867	Ndfip2	1.38	160	16.53	148	22.82	
4868	Engase	1.38	21	1.24	22	1.72	
4869	Ftsj1	1.38	62	6.03	47	8.32	
4870	Nudt22	1.38	25	4.66	23	6.43	
4871	RT1-CE2	1.38	30	3.24	24	4.47	
4872	Cecr2	1.38	62	2.21	61	3.04	
4873	Bnip3	1.38	99	18.33	105	25.29	
4874	Atp5g2	1.38	461	189.09	419	260.78	
4875	Atp6ap1	1.38	477	51.01	432	70.34	
4876	lfng2	1.38	90	7.45	84	10.27	
4877	Yeats4	1.38	84	14.84	89	20.45	
4878	Rn60_14_0846.1	1.38	121	15.18	112	20.93	
4879	Eps15	1.38	561	39.54	541	54.49	
4880	Pgp	1.38	98	9.49	93	13.08	
4881	Mt-co1	1.38	26730	4341.13	25345	5982.22	
4882	Phkb	1.38	181	4.64	180	6.4	
4883	Xrcc1	1.38	114	11.51	106	15.86	
4884	Usp8	1.38	343	17.53	311	24.14	
4885	Cntrob	1.38	29	1.44	24	1.98	
4886	Dsn1	1.38	86	4.39	76	6.05	
4887	Gstm4	1.38	45	5.43	54	7.47	
4888	LOC685619	1.38	12	6.12	12	8.42	
4889	Txlng	1.38	113	2.59	73	3.57	
4890	Hjurp	1.38	45	3.31	51	4.56	
4891	Psmg4	1.38	72	16.44	73	22.63	
4892	Ptn	1.38	45	7.23	43	9.95	
4893	Rnf19b	1.38	230	17.79	210	24.49	
4894	Sqstm1	1.38	741	77.07	707	106.1	
4895	lft140	1.38	225	7.81	218	10.75	
4896	Ube2b	1.38	360	39.8	285	54.75	
4897	Mon1b	1.38	74	6.92	71	9.51	
4898	Exosc9	1.38	101	7.41	80	10.2	
4899	Psen1	1.38	223	22.51	205	30.95	
4900	Cnpy4	1.37	96	15.15	89	20.82	
4901	Cpsf7	1.37	349	21.92	312	30.11	
4902	Ythdc1	1.37	268	15.36	231	21.1	
4903	Tmed1	1.37	203	37.66	193	51.72	
4904	Ppp4c	1.37	196	32.86	190	45.13	
4905	Copz1	1.37	538	53.99	510	74.12	
4906	Gorasp2_2	1.37	0	3.21	0	4.4	
4907	Kbtbd4	1.37	70	6	63	8.24	
4908	Malsu1	1.37	23	6	25	8.24	
4909	N6amt1	1.37	19	3.78	24	5.19	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
4910	S100ppb	1.37	300	9.11	244	12.5	
4911	Vamp1	1.37	20	1.7	18	2.34	
4912	Cdk5rap1	1.37	68	3.46	67	4.74	
4913	F8	1.37	105	2.69	111	3.69	
4914	Tpd5211	1.37	72	3.37	79	4.63	
4915	Zbtb43	1.37	32	2.97	25	4.07	
4916	Zswim1	1.37	18	3.28	17	4.5	
4917	Prdx2	1.37	973	268.51	917	368.27	
4918	Rpap3	1.37	132	9.92	148	13.6	
4919	Chd6	1.37	530	10.41	518	14.28	
4920	Ppp5c	1.37	171	17.1	157	23.44	
4921	Spsb1	1.37	1115	84.86	1030	116.29	
4922	Fiz1	1.37	109	8.46	100	11.6	
4923	Mob2	1.37	69	7.33	56	10.04	
4924	Mrps5	1.37	80	7.33	76	10.05	
4925	RGD1308147	1.37	36	4.42	33	6.05	
4926	Rpap1	1.37	142	6.31	125	8.65	
4927	LOC100910540	1.37	13	6.99	9	9.57	
4928	Kat5	1.37	159	18.58	157	25.45	
4929	Yipf3	1.37	137	14.38	137	19.7	
4930	Spats2	1.37	29	6.59	27	9.03	
4931	Slc25a36l1	1.37	217	22.89	273	31.33	
4932	Chpf2	1.37	275	16.46	259	22.53	
4933	Drosha	1.37	263	12.41	243	16.98	
4934	Man2a2	1.37	288	15.9	275	21.76	
4935	Tgfr1_1	1.37	266	15.97	274	21.85	
4936	Atp6v0a2	1.37	311	8.41	281	11.5	
4937	Psme1	1.37	142	59.55	154	81.47	
4938	Rnf169	1.37	80	4.06	74	5.56	
4939	Spred3	1.37	35	1.81	21	2.47	
4940	Chchd4_2	1.37	26	6.31	24	8.63	
4941	Tmem161b	1.37	44	2.9	44	3.97	
4942	Zfp688	1.37	22	5.12	22	7	
4943	Adam17	1.37	357	19.24	329	26.27	
4944	Prpf18	1.37	247	5.68	215	7.75	
4945	Camkk2	1.37	69	3.85	62	5.25	
4946	LOC690035	1.37	33	1.81	26	2.47	
4947	Plcb3	1.37	175	10.84	160	14.8	
4948	Spata2L	1.37	38	2.71	36	3.71	
4949	Rnmt	1.36	148	6.18	126	8.44	
4950	Srfbp1	1.36	103	4.37	95	5.96	
4951	Zdhhc4	1.36	68	8.76	61	11.95	
4952	Lrrc14	1.36	70	5.02	69	6.85	
4953	Tti1	1.36	175	6.42	150	8.76	
4954	Trappc11	1.36	161	7.98	160	10.89	
4955	Limd1	1.36	159	8.5	140	11.58	
4956	Rplp0	1.36	2476	599.78	2312	817.22	
4957	Slc7a6	1.36	215	12.01	205	16.36	
4958	Asb15	1.36	18	0.94	16	1.28	
4959	Bbs10	1.36	16	1.49	14	2.03	
4960	Gemin2	1.36	33	2.83	45	3.85	
4961	Mgat4a	1.36	21	0.55	26	0.76	
4962	Oard1	1.36	21	2.87	24	3.92	
4963	Rpa1	1.36	198	14.15	195	19.28	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
4964	Wdr89	1.36	17	1.9	16	2.59	
4965	Tspan6	1.36	195	29.63	189	40.36	
4966	Mier2	1.36	152	9.06	134	12.33	
4967	Rhoq	1.36	284	13.3	236	18.11	
4968	Cdk16	1.36	649	48.12	589	65.5	
4969	Nfyb	1.36	87	6.17	82	8.39	
4970	Usp39	1.36	158	10.56	141	14.37	
4971	Plekhm2	1.36	289	14.06	251	19.13	
4972	LOC102550456	1.36	15	9.94	12	13.52	
4973	Rbak	1.36	35	2.18	37	2.97	
4974	LOC100362023	1.36	252	18.45	241	25.07	
4975	Spcs1	1.36	113	30.72	103	41.75	
4976	Wsb1	1.36	792	49.24	820	66.91	
4977	Tf	1.36	93	5.87	87	7.97	
4978	Abca5	1.36	50	2.15	52	2.91	
4979	Fastk	1.36	169	16.57	143	22.5	
4980	Spata6	1.36	73	6.37	75	8.65	
4981	Ccdc8	1.36	262	19.56	239	26.56	
4982	Apbb1	1.36	109	10.02	104	13.6	
4983	Heatr5b	1.36	294	8.96	287	12.16	
4984	Tmem131	1.36	420	16.61	386	22.54	
4985	AC130391.3	1.36	8	2.9	6	3.93	
4986	Ncapd2	1.36	140	7.17	128	9.72	
4987	Zfp40	1.36	15	1.31	14	1.78	
4988	Apcdd1	1.36	340	26.04	311	35.31	
4989	Gsr	1.36	280	26.06	239	35.31	
4990	Ints9	1.36	139	10.18	128	13.79	
4991	Rpl9	1.35	29	261.74	13	354.64	
4992	Rprd2	1.35	238	10.85	229	14.71	
4993	Ecsit	1.35	80	9.88	70	13.38	
4994	RGD1564447	1.35	290	92.15	265	124.81	
4995	Cbll1	1.35	107	6.32	105	8.56	
4996	Xab2	1.35	159	13.12	145	17.77	
4997	Pcyox1l	1.35	182	17.09	148	23.15	
4998	Cmtr1	1.35	477	26.32	446	35.63	
4999	Pou2f1	1.35	54	2.62	59	3.54	
5000	Rbmxl1	1.35	126	38.44	114	52	
5001	Zzz3	1.35	392	12.46	347	16.85	
5002	Nlgn2	1.35	85	3.57	70	4.83	
5003	Rpl7a_1	1.35	0	22.17	0	29.95	
5004	Sirt1	1.35	111	6.83	106	9.23	
5005	Dnpep	1.35	308	42.66	283	57.6	
5006	Ccdc109b	1.35	207	31.43	172	42.4	
5007	Fancd2	1.35	57	2.4	56	3.24	
5008	RGD1309730	1.35	38	3.33	30	4.49	
5009	Zfp248	1.35	29	0.93	24	1.25	
5010	Cep41	1.35	21	0.98	16	1.32	
5011	Foxred1	1.35	40	3.71	37	5.01	
5012	Lars2	1.35	71	3.35	73	4.52	
5013	Lyplal1	1.35	18	2.63	22	3.56	
5014	Ncoa3	1.35	163	6.05	136	8.17	
5015	RGD1308134	1.35	51	15.56	54	21	
5016	Spag1	1.35	48	0.96	39	1.29	
5017	Cpsf1	1.35	244	12.69	231	17.12	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5018	Tor1aip1	1.35	250	17.45	243	23.52	
5019	Elmod2	1.35	21	2.87	15	3.87	
5020	Crnk1l_1	1.35	24	10.28	20	13.85	
5021	Col18a1	1.35	151	6.82	135	9.18	
5022	Fan1	1.35	48	1.97	48	2.65	
5023	H2afv	1.35	78	10.78	51	14.51	
5024	Ttc17	1.35	221	8.66	199	11.67	
5025	Ltbr	1.35	356	40.95	331	55.14	
5026	Mms22l	1.35	85	3.78	97	5.09	
5027	Glmn	1.35	60	2.92	61	3.93	
5028	Polr2g	1.35	115	29.35	105	39.48	
5029	Dock11	1.35	71	2.01	63	2.7	
5030	Zscan2	1.35	31	2.12	33	2.86	
5031	Sik2	1.35	643	15.46	559	20.8	
5032	Jmjd1c	1.35	590	13.26	558	17.84	
5033	Prpf4	1.34	108	9.02	99	12.13	
5034	Pnma2	1.34	70	5.02	64	6.75	
5035	Atp1b3	1.34	769	102.38	709	137.62	
5036	Meaf6	1.34	63	8.48	56	11.4	
5037	MGC94199_1	1.34	0	5.14	0	6.91	
5038	Ubac2	1.34	157	16	151	21.5	
5039	Ganab	1.34	1086	65.8	988	88.41	
5040	Cdk5	1.34	57	6.24	57	8.38	
5041	Mtcl1	1.34	283	7.14	261	9.59	
5042	Ssr3	1.34	745	69.73	677	93.67	
5043	Prkaca	1.34	414	42.99	377	57.74	
5044	Hsf2	1.34	144	10.28	130	13.8	
5045	Rnf114	1.34	187	19.78	174	26.54	
5046	Elovl5	1.34	400	85.54	370	114.79	
5047	Fam134c	1.34	236	15.86	208	21.28	
5048	Men1	1.34	228	18.57	207	24.92	
5049	AABR07051947.1	1.34	15	8.18	17	10.97	
5050	Prickle3	1.34	48	2.99	38	4.01	
5051	C030039L03Rik	1.34	17	1.7	14	2.27	
5052	Ccne1	1.34	28	3.32	26	4.45	
5053	LOC499331	1.34	43	5.8	36	7.78	
5054	Prelp	1.34	14	0.89	11	1.2	
5055	Rab2b	1.34	72	8.45	73	11.33	
5056	Slc26a11	1.34	59	5.46	56	7.33	
5057	Slc7a8	1.34	17	0.78	15	1.04	
5058	Sntb1	1.34	38	1.01	43	1.36	
5059	Stk36	1.34	50	1.93	51	2.59	
5060	Tmem70	1.34	31	3.67	29	4.92	
5061	Cyhr1	1.34	399	10.29	358	13.8	
5062	Dad1	1.34	200	52.32	191	70.15	
5063	Nck2	1.34	266	13.98	238	18.74	
5064	Cxxc1	1.34	190	17.09	167	22.9	
5065	Pkm_2	1.34	200	92.51	172	123.95	
5066	Cog6	1.34	223	14.9	192	19.95	
5067	Arhgap32	1.34	355	7.65	310	10.24	
5068	Rps6ka3	1.34	562	16.42	515	21.98	
5069	Troap	1.34	44	4.2	45	5.62	
5070	Mill1	1.34	257	13.69	236	18.32	
5071	Wdsub1	1.34	76	4.68	57	6.26	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5072	Auts2	1.34	253	17.46	236	23.36	
5073	Epn1	1.34	302	30.41	270	40.69	
5074	Sfmbt1	1.34	154	6.36	145	8.51	
5075	Map2k7	1.34	136	21.53	119	28.79	
5076	Zfyve1	1.34	157	7.37	126	9.85	
5077	Rsrp1	1.34	419	35.71	381	47.75	
5078	Napa	1.34	241	34.53	213	46.17	
5079	Fam173a	1.34	31	5.47	26	7.32	
5080	P2rx4	1.34	133	14.17	118	18.93	
5081	Tox4	1.34	257	18.98	251	25.36	
5082	Fxr2	1.34	493	39.63	450	52.92	
5083	Chpt1	1.34	45	6.03	50	8.05	
5084	Elp6	1.34	46	7	56	9.35	
5085	Ncaph	1.34	47	3.24	49	4.32	
5086	Smad9	1.33	62	3.79	67	5.06	
5087	H3f3b_2	1.33	400	318.88	363	425.5	
5088	Lpin3	1.33	137	8.76	144	11.69	
5089	Sympk	1.33	329	17.66	301	23.57	
5090	Lmtk2	1.33	385	10.73	361	14.31	
5091	Ppm1b	1.33	288	7.95	248	10.61	
5092	Mrps34	1.33	74	20.19	67	26.92	
5093	Atf6b	1.33	155	25.42	179	33.9	
5094	AABR07015165.1	1.33	133	9.72	121	12.96	
5095	Gna11	1.33	201	32	175	42.64	
5096	Ccbl1	1.33	64	8.44	52	11.24	
5097	Oasl	1.33	12	1.09	14	1.45	
5098	Eid1	1.33	0	3.48	0	4.63	
5099	Fam102a	1.33	42	2.27	39	3.02	
5100	LOC100910252	1.33	27	2.02	17	2.69	
5101	LOC679087	1.33	6	2.04	4	2.72	
5102	Mrpl52	1.33	123	20.5	112	27.3	
5103	Pcdhga9	1.33	23	2.47	20	3.29	
5104	Slc10a3	1.33	62	8.06	57	10.74	
5105	Steap3	1.33	18	1	13	1.33	
5106	Timm10b_1	1.33	1	2.23	1	2.98	
5107	Trim13	1.33	15	2.2	17	2.92	
5108	Zbtb44	1.33	81	5.52	83	7.35	
5109	Zfhx2	1.33	43	1	39	1.34	
5110	Zfp322a	1.33	74	3.81	63	5.08	
5111	Dtwd2	1.33	29	1.66	21	2.21	
5112	Erc6l	1.33	27	1.51	22	2.01	
5113	Hells	1.33	1	0.58	0	0.78	
5114	Snx1	1.33	82	17.69	77	23.57	
5115	Vps53	1.33	253	12.79	209	17.03	
5116	Ap2s1	1.33	130	29.2	113	38.86	
5117	Zfp637	1.33	106	18.4	90	24.48	
5118	Eif4ebp2	1.33	252	32.05	232	42.65	
5119	Rreb1	1.33	273	5.81	231	7.73	
5120	Vps72	1.33	207	32.52	187	43.26	
5121	3110040N11Rik	1.33	53	5.72	44	7.6	
5122	Dennd6a	1.33	191	8.25	179	10.97	
5123	Cdc23	1.33	233	14.73	215	19.58	
5124	Pdgfd	1.33	200	7.83	158	10.41	
5125	Ahsa2	1.33	85	6.93	79	9.2	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5126	Pi4ka	1.33	363	10.59	312	14.07	
5127	Aldh9a1	1.33	142	19.84	148	26.35	
5128	Uxs1	1.33	439	30.54	344	40.56	
5129	Pigm	1.33	81	5.46	74	7.25	
5130	Pja1	1.33	258	24.54	220	32.57	
5131	Stmn1	1.33	257	47.5	226	63.04	
5132	Fam13a	1.33	191	10.88	179	14.44	
5133	Tmem256	1.33	15	12.65	15	16.78	
5134	Patz1	1.33	279	13.35	248	17.72	
5135	Ubl7	1.33	228	37.87	202	50.24	
5136	Dpysl2	1.33	1185	111.7	1070	148.14	
5137	Rad17	1.33	79	5.14	68	6.81	
5138	Abhd17a	1.33	209	27.4	167	36.31	
5139	Spice1	1.32	40	2.47	47	3.27	
5140	Agpat5	1.32	51	3.49	50	4.62	
5141	Irf2bp1	1.32	102	9.41	93	12.46	
5142	Kdm3a	1.32	251	12.07	226	15.99	
5143	Rbm14	1.32	266	15.11	274	20.01	
5144	Cnot8	1.32	192	19.14	175	25.34	
5145	RGD1561277	1.32	54	2.29	52	3.04	
5146	Mia3	1.32	431	21.14	377	27.98	
5147	Scd2	1.32	11569	581.88	10466	770.06	
5148	Trub2	1.32	82	10.77	74	14.26	
5149	Gprasp1	1.32	200	7.43	174	9.83	
5150	Golph3l	1.32	76	4.99	83	6.6	
5151	Pcdh11x	1.32	138	3.63	133	4.8	
5152	Rcn2	1.32	389	42.46	336	56.12	
5153	Mt-nd1	1.32	3275	864.38	2971	1142.32	
5154	Der1l	1.32	349	29.85	311	39.44	
5155	Atp6ap2	1.32	147	15.08	129	19.92	
5156	Inip	1.32	41	7.69	47	10.16	
5157	Ino80b	1.32	0	2.4	0	3.17	
5158	Samd1	1.32	78	13.35	71	17.64	
5159	AABR07061378.1	1.32	0	5.87	0	7.75	
5160	Kitlg	1.32	25	1.02	25	1.35	
5161	Mettl8	1.32	41	0.88	32	1.17	
5162	Mrm1	1.32	41	2.88	42	3.8	
5163	Pigw	1.32	22	3.63	20	4.8	
5164	Pskh1	1.32	159	7.98	143	10.54	
5165	RGD1560883_1	1.32	27	2.22	24	2.93	
5166	Srp14	1.32	44	22.87	41	30.21	
5167	Srsf12	1.32	24	1.04	16	1.37	
5168	Tcirg1	1.32	36	2.93	31	3.87	
5169	Wdr31	1.32	16	1.87	17	2.48	
5170	Zfp870	1.32	12	1.64	13	2.17	
5171	Zkscan5	1.32	113	5.49	95	7.25	
5172	Ccdc39	1.32	48	0.67	44	0.89	
5173	Trap1	1.32	281	29.21	265	38.56	
5174	Gcc2	1.32	112	3.71	103	4.89	
5175	Cul4b	1.32	176	10.63	155	14.02	
5176	Hmcn1	1.32	446	5.02	411	6.62	
5177	Ccdc132	1.32	122	9.16	100	12.09	
5178	Pip4k2b	1.32	89	8.17	65	10.77	
5179	Ddi2	1.32	346	7.93	310	10.45	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5180	Klhl12	1.32	86	4.14	67	5.46	
5181	Depdc5	1.32	182	4.21	182	5.54	
5182	Det1	1.32	67	4.73	48	6.24	
5183	Slc25a33	1.32	71	7.75	64	10.21	
5184	Zfp317	1.32	50	5	42	6.59	
5185	Ctdspl2	1.32	168	8.01	154	10.55	
5186	Pcolce	1.32	688	98.73	611	130.02	
5187	Efr3a	1.32	294	13.52	266	17.8	
5188	Gucd1	1.32	33	18.59	32	24.48	
5189	Rars2	1.32	44	4.06	42	5.35	
5190	Eri2	1.32	37	2.31	29	3.04	
5191	Zfp280b	1.32	298	19.49	272	25.64	
5192	Sptlc1	1.32	161	7.8	160	10.26	
5193	Ctage5	1.32	188	11.79	140	15.51	
5194	Exo5	1.31	22	2.6	19	3.41	
5195	Gpr137b	1.31	89	2.11	80	2.78	
5196	Prcp	1.31	139	13.29	127	17.47	
5197	Ptger1	1.31	38	2.72	30	3.58	
5198	Sec11c	1.31	47	6.44	35	8.47	
5199	Tesk2	1.31	37	1.73	33	2.27	
5200	Gmcl1	1.31	165	8.75	139	11.5	
5201	Kdm5b	1.31	595	20.82	540	27.36	
5202	Mtss1	1.31	179	4.69	165	6.16	
5203	Phf6_2	1.31	111	8.32	98	10.93	
5204	Tmem209	1.31	109	8.28	106	10.88	
5205	Sdha	1.31	362	36.44	338	47.86	
5206	Abt1	1.31	52	10.04	42	13.18	
5207	Srpk2	1.31	267	12.55	235	16.48	
5208	Coq3	1.31	41	5.92	39	7.77	
5209	Melk	1.31	47	2.72	38	3.57	
5210	Nadsyn1	1.31	48	2.88	49	3.78	
5211	Rnf20	1.31	229	11.21	194	14.71	
5212	Dazap2	1.31	239	59.82	209	78.49	
5213	Id2	1.31	700	85.79	633	112.51	
5214	Cog1	1.31	160	11.9	142	15.6	
5215	N4bp1	1.31	206	7.58	175	9.94	
5216	Erlin2	1.31	200	12.56	182	16.46	
5217	Lamp2	1.31	711	62.61	590	82.07	
5218	Zfp646	1.31	258	11.28	232	14.78	
5219	Cnot7	1.31	237	18.4	208	24.1	
5220	Faim_2	1.31	17	14.99	23	19.64	
5221	Arl6ip1	1.31	315	34.14	276	44.71	
5222	M6pr	1.31	324	56.49	271	73.97	
5223	Dnajc11	1.31	250	23.27	225	30.47	
5224	Galnt2	1.31	904	52.27	801	68.43	
5225	Lrp5	1.31	519	22.77	463	29.8	
5226	Uri1	1.31	192	10.86	186	14.21	
5227	RT1-T24-1	1.31	78	2.18	71	2.85	
5228	AABR07072537.1	1.31	10	0.91	9	1.19	
5229	Cpt1b	1.31	10	0.66	11	0.86	
5230	Dera	1.31	121	14.42	122	18.86	
5231	Dpy19l4	1.31	101	7.05	91	9.22	
5232	Dscr3	1.31	160	13.06	141	17.09	
5233	Mblac1	1.31	10	1.97	9	2.58	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5234	Pcdhga5	1.31	10	1.03	9	1.34	
5235	Pfas	1.31	367	12.06	335	15.78	
5236	Pgam2	1.31	24	2.86	23	3.74	
5237	Pyurfl1	1.31	39	4.03	36	5.27	
5238	Rapsn	1.31	28	1.51	16	1.97	
5239	RGD1310553	1.31	72	5.1	63	6.66	
5240	RT1-T24-4	1.31	7	1.52	4	1.99	
5241	Scoc	1.31	101	13.25	89	17.33	
5242	Slc17a9	1.31	41	3.28	34	4.3	
5243	Snopc1	1.31	53	5.65	45	7.39	
5244	Stk19	1.31	22	3.39	20	4.44	
5245	AABR07031734.2	1.31	10	1.04	9	1.36	
5246	Kihl32	1.31	36	1.04	37	1.36	
5247	LOC100363943	1.31	16	3.48	14	4.54	
5248	Pi4k2a	1.31	131	17.15	133	22.43	
5249	Rbm4b_1	1.31	113	19.25	106	25.16	
5250	Trim37	1.31	160	6.15	136	8.04	
5251	Serpine2	1.31	1761	193.43	1571	252.57	
5252	Dhrs7	1.31	74	13.32	76	17.39	
5253	Gtf3c1	1.31	819	26.74	748	34.91	
5254	Anapc16	1.3	80	10.45	87	13.64	
5255	G6pc3	1.3	103	16.6	89	21.66	
5256	Smpd4	1.3	150	9.17	137	11.96	
5257	Mkks	1.3	56	3.27	44	4.27	
5258	Als2	1.3	283	10.4	274	13.56	
5259	Cul4a	1.3	615	28.69	582	37.41	
5260	Mlh1	1.3	106	6.22	107	8.11	
5261	Nosip	1.3	102	10.45	96	13.63	
5262	Armc5	1.3	148	10.39	136	13.54	
5263	Phf13	1.3	158	12.14	140	15.83	
5264	Cyp4f17	1.3	42	1.47	41	1.92	
5265	Trip13	1.3	45	2.68	41	3.49	
5266	Fxyd6	1.3	64	8.18	55	10.66	
5267	Rnf26	1.3	86	9.86	78	12.84	
5268	Thumpd3	1.3	124	10.95	106	14.27	
5269	Vrk3	1.3	114	12.56	112	16.36	
5270	Prpf40b	1.3	137	8.43	125	10.98	
5271	Rnf10	1.3	1377	80.16	1244	104.38	
5272	Cct2	1.3	755	92.69	684	120.69	
5273	Cnpy2	1.3	155	35.95	148	46.8	
5274	Prmt5	1.3	173	15.9	151	20.7	
5275	Rabif	1.3	16	5.61	23	7.3	
5276	Bles03	1.3	110	15.61	97	20.31	
5277	Mkrn1	1.3	124	7.72	104	10.03	
5278	Rad52	1.3	36	2.34	34	3.04	
5279	Suz12	1.3	108	8.52	92	11.08	
5280	Tmem167a	1.3	46	21.92	29	28.5	
5281	Hsp90ab1	1.3	4492	477.45	4161	620.59	
5282	Eif2d	1.3	185	19.93	160	25.9	
5283	Apeh	1.3	241	19.92	217	25.89	
5284	Pes1	1.3	211	24.9	192	32.36	
5285	Iars2	1.3	224	15.01	197	19.5	
5286	Eef2k	1.3	99	4.15	99	5.39	
5287	Ptma_1	1.3	625	369.9	696	480.58	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5288	Cir1	1.3	91	9.18	71	11.92	
5289	LOC689574	1.3	154	43.33	133	56.29	
5290	ltfg1	1.3	454	33.33	424	43.29	
5291	Dnajc5	1.3	127	21.69	101	28.16	
5292	Cox7a2l	1.3	290	47.21	229	61.27	
5293	Klf10	1.3	60	4.66	50	6.05	
5294	Sar1b	1.3	159	22.08	128	28.64	
5295	Cdkal1	1.3	139	4.13	146	5.35	
5296	Igsf10	1.3	59	1.27	52	1.65	
5297	Akap10	1.3	131	5.33	131	6.9	
5298	Sephs2	1.3	91	7.98	68	10.34	
5299	Erap1	1.3	353	16.44	303	21.3	
5300	Epc1	1.3	334	12.25	261	15.87	
5301	Fars2	1.3	138	5.92	127	7.66	
5302	Commd7	1.3	67	11.98	51	15.51	
5303	Mff_2	1.29	136	63.86	167	82.69	
5304	Bin3	1.29	100	8.86	89	11.47	
5305	Sra1	1.29	128	25.01	108	32.37	
5306	Tm2d1	1.29	140	9.64	109	12.48	
5307	Phtf2	1.29	181	6.63	141	8.58	
5308	LOC100364912	1.29	75	8.51	66	11.01	
5309	Atf2	1.29	204	10.11	189	13.07	
5310	Ppp1r10	1.29	289	15.83	247	20.47	
5311	Cerk	1.29	200	11.02	180	14.25	
5312	Vps39	1.29	353	10.7	251	13.84	
5313	Crebrf	1.29	142	3.81	120	4.92	
5314	Rbm42	1.29	208	28.06	187	36.27	
5315	Ptpa	1.29	334	18.28	275	23.63	
5316	Ndufb8	1.29	314	105.32	273	136.1	
5317	Ncor2	1.29	722	17.51	650	22.62	
5318	Amh	1.29	9	1.35	8	1.74	
5319	Dtwd1	1.29	15	1.44	13	1.86	
5320	Fam184a	1.29	72	1.93	53	2.49	
5321	Mcm3	1.29	188	15.3	165	19.76	
5322	Nphp1	1.29	85	5	86	6.46	
5323	Ppp2r5b	1.29	109	9.19	105	11.87	
5324	Rbm39	1.29	0	2.27	1	2.93	
5325	Tex261	1.29	145	32.25	124	41.66	
5326	Tmem141	1.29	37	8.62	31	11.14	
5327	Ttc7a	1.29	60	2	48	2.59	
5328	Ttyh1	1.29	22	1.46	22	1.88	
5329	B3galt1	1.29	8	0.84	9	1.08	
5330	Caap1	1.29	59	2.97	50	3.83	
5331	Coq4	1.29	32	2.85	22	3.68	
5332	Jam2	1.29	44	5.72	33	7.39	
5333	LOC102551435	1.29	20	1.95	12	2.52	
5334	Pdia5	1.29	157	12.9	125	16.67	
5335	Plag1	1.29	9	0.67	9	0.87	
5336	Ptgs2	1.29	9	0.51	8	0.66	
5337	Speg	1.29	13	0.19	14	0.24	
5338	Wdr82	1.29	251	32.24	201	41.64	
5339	Xrcc3	1.29	94	2.14	41	2.76	
5340	Tspan31	1.29	265	33.26	233	42.94	
5341	Trpc4ap	1.29	684	46.11	595	59.52	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5342	Arid2	1.29	518	14.8	453	19.1	
5343	Mt-nd5	1.29	3448	489.48	3024	631.74	
5344	Neurl4	1.29	238	10.71	207	13.81	
5345	Smu1	1.29	218	26.86	188	34.65	
5346	Zfp280d	1.29	174	5.56	160	7.18	
5347	Ppp1r9b	1.29	181	9.84	165	12.69	
5348	Pdhb	1.29	188	18.81	164	24.26	
5349	Hyou1	1.29	1535	80.72	1343	104.08	
5350	Polrmt	1.29	64	4.13	59	5.32	
5351	Abcg3l3	1.29	248	7.97	181	10.27	
5352	Clk1	1.29	396	37.22	358	47.96	
5353	Ttyh3	1.29	545	26.92	483	34.69	
5354	Sirt6	1.29	115	14.51	98	18.69	
5355	Snx15	1.29	57	6.64	52	8.56	
5356	Zfp280c	1.29	67	3.24	51	4.18	
5357	Ficd	1.29	132	9.62	111	12.39	
5358	Ifngr1	1.29	192	20.79	159	26.76	
5359	Inpp5k	1.29	93	12.55	84	16.16	
5360	Psmg1	1.29	92	19.61	73	25.24	
5361	Tecpr1	1.29	181	7.64	159	9.84	
5362	Pofut2	1.29	356	37.72	316	48.56	
5363	F8a1	1.29	35	5.76	31	7.41	
5364	Kif2c	1.29	43	3.01	43	3.87	
5365	Ppp1r21	1.29	85	5.6	80	7.2	
5366	LOC100910143	1.29	0	1.66	0	2.13	
5367	Lysmd1	1.29	37	4.27	31	5.49	
5368	Tgfbrap1	1.29	133	4.67	117	6.01	
5369	Vegfb	1.29	48	4.88	39	6.28	
5370	Med6	1.29	47	8.03	43	10.34	
5371	09/02/15	1.29	185	16.25	154	20.9	
5372	Maged1	1.29	1549	115.26	1369	148.32	
5373	RGD1310352	1.29	636	64	557	82.33	
5374	Dcaf5	1.29	300	9.47	244	12.19	
5375	Atp7a	1.29	188	6.95	175	8.94	
5376	Ccdc97	1.29	148	11.74	129	15.1	
5377	Ndufs8	1.29	142	46.3	122	59.54	
5378	Ccdc62	1.29	91	2.26	95	2.9	
5379	Fbxo34	1.29	140	5.85	114	7.52	
5380	Ppcs	1.29	27	3.76	26	4.83	
5381	Mrp63	1.29	26	3.93	23	5.05	
5382	Rbpj_2	1.29	547	33.78	472	43.42	
5383	Xpo5	1.28	440	20.53	397	26.38	
5384	Tmem230	1.28	212	29.89	188	38.4	
5385	Sec23ip	1.28	376	18.99	331	24.4	
5386	Tm9sf4	1.28	319	24.51	261	31.47	
5387	Fn3krp	1.28	64	5.93	58	7.61	
5388	Pdrg1	1.28	63	12.54	57	16.1	
5389	Tp53bp1	1.28	363	12.54	331	16.1	
5390	Rexo1	1.28	271	11.96	226	15.34	
5391	Ninj1	1.28	182	36.73	152	47.13	
5392	Proser1	1.28	123	6.24	113	8.01	
5393	Mvb12b	1.28	286	12.87	254	16.5	
5394	Ccdc12	1.28	70	15.63	68	20.04	
5395	Celsr1	1.28	66	1.43	52	1.83	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5396	Dusp11_1	1.28	0	3.3	0	4.23	
5397	Ercc2	1.28	75	5.94	63	7.62	
5398	Fam103a1	1.28	18	5.36	16	6.87	
5399	Kcnb1	1.28	25	1.27	21	1.63	
5400	Rnf34	1.28	98	8.64	83	11.08	
5401	Stx2	1.28	120	6.48	83	8.3	
5402	Yod1	1.28	22	2.68	19	3.44	
5403	Zfp217	1.28	95	5.72	79	7.34	
5404	Odf2l	1.28	30	1.11	26	1.43	
5405	Bckdk	1.28	242	24.76	222	31.73	
5406	Unc50	1.28	159	23.43	134	30.02	
5407	Fbxo38	1.28	235	11.55	212	14.8	
5408	Adam15	1.28	190	15.3	165	19.6	
5409	Pign	1.28	126	5.9	120	7.56	
5410	Kdm6b	1.28	250	13.95	202	17.88	
5411	RGD1303003	1.28	128	23.04	114	29.51	
5412	Ap1m1	1.28	297	30.45	263	39	
5413	Rint1	1.28	101	6.66	70	8.53	
5414	Stk35	1.28	83	4.33	58	5.55	
5415	Atrn	1.28	807	19.22	689	24.61	
5416	AABR07009397.1	1.28	3	13.56	3	17.35	
5417	Asna1	1.28	243	38.63	203	49.42	
5418	RGD1307155	1.28	35	4.67	27	5.97	
5419	Nek8	1.28	34	2.38	30	3.04	
5420	Ociad1	1.28	318	41.62	272	53.22	
5421	Zfp729a	1.28	34	2.66	38	3.4	
5422	Elk1	1.28	169	15.01	158	19.19	
5423	Fbf1	1.28	119	4.64	104	5.93	
5424	Tut1	1.28	99	7.21	90	9.21	
5425	Crbn	1.28	65	6.4	61	8.18	
5426	RGD1310951	1.28	249	12.04	243	15.38	
5427	Trim41	1.28	166	10.5	141	13.42	
5428	Dph1	1.28	83	9.91	48	12.67	
5429	Hmg20b	1.28	104	13.53	109	17.28	
5430	Fbxl4	1.28	61	2.53	55	3.22	
5431	Exoc7_2	1.28	3	7.89	3	10.07	
5432	Nadk2	1.28	63	2.32	53	2.96	
5433	Pik3cd	1.28	1399	63.07	1194	80.54	
5434	Epb41l3	1.28	135	5.29	126	6.75	
5435	Sos1	1.28	284	8.66	239	11.05	
5436	Gtf2h4	1.28	41	5.32	38	6.79	
5437	Uap1l1	1.28	46	3.79	42	4.83	
5438	Atp5sl	1.28	47	5.07	50	6.47	
5439	Rps29_2	1.28	103	273.67	100	349.01	
5440	Adck2	1.28	56	4.87	50	6.21	
5441	Dnaja3	1.27	131	13.74	125	17.51	
5442	Ulk2	1.27	362	10.03	292	12.78	
5443	Ing1	1.27	81	10.93	71	13.92	
5444	Ctnnb1	1.27	1374	138.53	1190	176.44	
5445	Vapa	1.27	466	52.4	394	66.72	
5446	Psmb2	1.27	254	63.7	215	81.1	
5447	Gltscr2	1.27	256	35.37	221	45.02	
5448	Ssr4	1.27	142	46.63	123	59.36	
5449	Tfip11	1.27	182	11.46	147	14.59	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5450	Atp6v0d1	1.27	447	58.19	382	74.02	
5451	Cenpl	1.27	31	2.71	21	3.45	
5452	Ercc3	1.27	175	14.94	153	19	
5453	Gsk3a	1.27	386	34.18	297	43.46	
5454	LOC100912399_2	1.27	0	0.5	0	0.64	
5455	Nup37	1.27	40	2.39	31	3.04	
5456	Peli3	1.27	11	0.34	9	0.43	
5457	Thap2	1.27	16	3.05	16	3.88	
5458	AABR07028012.1	1.27	13	4.37	13	5.56	
5459	AABR07030729.1	1.27	1	1.99	1	2.53	
5460	AC120712.2	1.27	20	2.26	8	2.87	
5461	Arl15	1.27	108	3.26	82	4.14	
5462	Bora	1.27	31	1.75	33	2.22	
5463	Echdc2	1.27	9	1.43	8	1.82	
5464	Fcf1	1.27	103	25.78	86	32.77	
5465	Gipc2	1.27	15	1.59	13	2.03	
5466	Il4i1	1.27	16	1.02	15	1.29	
5467	lqce	1.27	64	3.31	63	4.21	
5468	LOC100910164	1.27	1	2.27	1	2.88	
5469	Lrrc48	1.27	32	1.1	26	1.4	
5470	Mapt	1.27	16	0.32	12	0.4	
5471	Nt5dc1	1.27	74	3.71	71	4.72	
5472	Pkd1l3	1.27	302	0.3	461	0.38	
5473	Plcl1	1.27	44	2.11	39	2.68	
5474	Rcbtb1	1.27	169	5.81	137	7.38	
5475	Rn60_10_0702.4	1.27	20	2.04	19	2.6	
5476	Sliitrk2	1.27	25	2.03	24	2.58	
5477	Snx17	1.27	192	22.96	165	29.2	
5478	Ttc23	1.27	102	6.71	102	8.53	
5479	Med24	1.27	230	14.43	205	18.34	
5480	Hectd4	1.27	444	7.45	379	9.47	
5481	Fubp3	1.27	296	21.82	242	27.72	
5482	Drg1	1.27	168	20.93	134	26.59	
5483	Snrk	1.27	142	8.24	133	10.46	
5484	Srrm2	1.27	3885	115.33	3413	146.41	
5485	Atg2b	1.27	287	6.73	247	8.54	
5486	Ints7	1.27	211	12.7	193	16.12	
5487	Ddx39b	1.27	359	51.87	330	65.84	
5488	Sf3b3	1.27	730	37.16	625	47.17	
5489	Syne2	1.27	1605	16.78	1476	21.3	
5490	Vps16	1.27	181	15.05	151	19.1	
5491	Spg7	1.27	266	12.7	225	16.11	
5492	AABR07034742.1	1.27	150	41.48	157	52.64	
5493	Ccp110	1.27	86	3.62	77	4.6	
5494	Mt-cox3	1.27	10241	3271.25	8904	4150.86	
5495	Tmx1	1.27	289	35.27	256	44.74	
5496	Prkcd	1.27	389	29.42	331	37.32	
5497	Ern1	1.27	301	8.5	239	10.78	
5498	Ttc9c	1.27	142	14.66	124	18.6	
5499	Sumo3	1.27	264	38.59	235	48.92	
5500	Spryd4	1.27	48	7.92	43	10.04	
5501	Tmem50a	1.27	208	43.25	182	54.82	
5502	Zfp706	1.27	191	18.68	165	23.67	
5503	LOC100909555	1.27	41269	2149.82	36245	2723.77	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5504	Map3k12	1.27	180	11.33	165	14.36	
5505	Stk16	1.27	86	13.13	74	16.64	
5506	Tubb3	1.27	535	71.49	457	90.52	
5507	Klhl13	1.27	102	7.88	94	9.98	
5508	Pcm1	1.27	420	11.52	379	14.58	
5509	Ptbp3	1.27	390	26.65	325	33.73	
5510	Wdr13	1.27	96	10.21	68	12.92	
5511	Ylpm1	1.27	406	10.2	380	12.91	
5512	Fbxo42	1.26	216	7.55	189	9.55	
5513	Gatad2a	1.26	531	23.55	477	29.79	
5514	Mcart1_1	1.26	13	6.26	15	7.92	
5515	Atg16l1	1.26	203	9.88	164	12.49	
5516	Lage3	1.26	76	25.82	66	32.65	
5517	Trim33	1.26	237	12.84	219	16.23	
5518	Tspan5	1.26	270	10.75	219	13.59	
5519	Scamp2	1.26	303	30.37	273	38.38	
5520	Donson	1.26	36	2.59	27	3.27	
5521	Fam76a	1.26	45	4.58	47	5.79	
5522	Tsc22d4_2	1.26	0	4.81	0	6.08	
5523	Vwa5a_1	1.26	1	6.06	2	7.65	
5524	LOC306766	1.26	224	19.48	188	24.61	
5525	Nt5c	1.26	28	7.33	23	9.26	
5526	Jund	1.26	635	94.38	551	119.25	
5527	Il6st	1.26	330	25.14	277	31.76	
5528	Exoc2	1.26	178	14.75	172	18.64	
5529	Srsf6	1.26	546	33.62	459	42.46	
5530	Pabpn1	1.26	491	56.72	451	71.64	
5531	Gga2	1.26	105	7.45	87	9.41	
5532	Rae1	1.26	179	23.54	149	29.72	
5533	Dhx9	1.26	631	35.26	534	44.52	
5534	Adnp	1.26	699	25.75	589	32.5	
5535	Mettl5	1.26	49	8.76	51	11.05	
5536	Tmcc3	1.26	210	4.76	166	6	
5537	Aldh1a1	1.26	544	59.89	476	75.53	
5538	Mfsd1	1.26	156	15.59	135	19.66	
5539	Minos1	1.26	216	67.1	179	84.6	
5540	Cdan1	1.26	110	5.57	83	7.02	
5541	Ctnnb1	1.26	178	16.93	171	21.33	
5542	Gtf3c2	1.26	357	18.57	307	23.4	
5543	Elmsan1	1.26	181	5.39	167	6.79	
5544	Cdkn1c	1.26	17	1.83	13	2.31	
5545	Cep126	1.26	38	0.9	37	1.14	
5546	Frk	1.26	70	3.27	63	4.12	
5547	LOC100911918	1.26	29	2.14	15	2.69	
5548	Mutyh	1.26	37	4.48	45	5.64	
5549	Rab33a	1.26	20	2.75	18	3.47	
5550	Tex264	1.26	148	19.39	133	24.42	
5551	Timm44	1.26	140	14.67	114	18.48	
5552	Tmed10	1.26	611	113.35	528	142.74	
5553	Tmem192	1.26	53	4.95	45	6.23	
5554	Usp40	1.26	123	10.06	128	12.67	
5555	Ndufa9	1.26	281	41.83	230	52.68	
5556	LOC686442	1.26	193	91.72	172	115.46	
5557	Gdi1	1.26	985	97.87	879	123.2	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5558	Otub1	1.26	325	46.38	273	58.38	
5559	Decr2	1.26	102	5.12	93	6.45	
5560	Ndufs3	1.26	177	34.89	154	43.9	
5561	Fzr1	1.26	129	16.54	117	20.8	
5562	Ints3	1.26	327	15.9	294	20	
5563	Arhgap12	1.26	249	8.71	219	10.95	
5564	Arnt	1.26	215	17.44	205	21.93	
5565	Glce	1.26	165	8.23	141	10.35	
5566	Oxr1	1.26	230	7.57	176	9.52	
5567	Aplp1	1.26	527	55.71	451	70.04	
5568	Parp1	1.26	434	26.61	378	33.45	
5569	RGD1564379	1.26	82	7.52	82	9.45	
5570	LOC500034	1.26	61	6.59	42	8.29	
5571	Tbp	1.26	81	7.87	72	9.89	
5572	Zfp131	1.26	157	12.13	122	15.24	
5573	Ccdc71	1.26	86	12.31	71	15.46	
5574	Nfe2l1	1.26	1761	91.45	1475	114.84	
5575	Csk	1.26	207	19.75	176	24.8	
5576	Mfsd5	1.26	104	14.8	89	18.58	
5577	Abhd1	1.25	18	1.07	13	1.34	
5578	Gtpbp2	1.25	120	6.06	98	7.61	
5579	Nelfb	1.25	346	25.85	275	32.44	
5580	Oxnad1	1.25	82	3.96	79	4.97	
5581	Yaf2	1.25	115	9.37	82	11.76	
5582	Zfp397	1.25	25	2.66	22	3.34	
5583	Mettl25	1.25	56	2.41	48	3.03	
5584	Zdhhc16	1.25	123	13.11	111	16.45	
5585	Nip30	1.25	152	14.84	120	18.6	
5586	Bap1	1.25	412	26.11	343	32.72	
5587	Parp6	1.25	210	12.51	179	15.68	
5588	Dlg5	1.25	237	8.97	216	11.25	
5589	Kdm2a	1.25	632	21.38	557	26.8	
5590	Tada2b	1.25	163	9.63	126	12.07	
5591	AC108574.2	1.25	106	9.28	94	11.63	
5592	Alg14	1.25	91	9.58	75	12	
5593	Klhl22	1.25	222	15.23	182	19.08	
5594	LOC100911625	1.25	0	3.07	0	3.84	
5595	Arhgef10l	1.25	190	9.02	160	11.3	
5596	Tmem64	1.25	30	6.34	28	7.94	
5597	Adh4	1.25	195	8.87	173	11.11	
5598	Cdk5rap2	1.25	217	7.44	205	9.31	
5599	Dhrs7b	1.25	116	12.05	99	15.09	
5600	Crtc3	1.25	456	8.22	360	10.28	
5601	Ddah2	1.25	225	49.24	215	61.62	
5602	Gm12258	1.25	76	4.35	63	5.45	
5603	Siva1	1.25	47	5.08	36	6.35	
5604	Tmem55b	1.25	119	16.49	95	20.63	
5605	Prmt1	1.25	118	123.18	82	154.1	
5606	Pias4	1.25	102	6.59	83	8.24	
5607	Rabep2	1.25	97	7.29	81	9.12	
5608	Tfe3	1.25	91	11.43	78	14.3	
5609	ENSRNOG00000059	1.25	146	7.69	119	9.62	
5610	Hexa	1.25	376	47.8	315	59.74	
5611	Pcdh9	1.25	100	7.14	86	8.92	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5612	Edc4	1.25	348	15.83	292	19.78	
5613	Sfr1	1.25	175	27.99	156	34.97	
5614	Slc30a1	1.25	165	16.99	145	21.22	
5615	Ppfia1	1.25	190	9.27	155	11.57	
5616	Gatc	1.25	94	10.84	98	13.53	
5617	Plekha7	1.25	162	4.64	164	5.79	
5618	Stk38	1.25	167	15.42	163	19.23	
5619	Strbp	1.25	134	7.55	114	9.41	
5620	Cachd1	1.25	123	6.92	96	8.64	
5621	Cep164	1.25	145	6.09	125	7.6	
5622	Tpcn1	1.25	122	6.76	108	8.43	
5623	Ehmt1	1.25	488	13.99	415	17.44	
5624	AABR07050399.1	1.25	0	5.78	0	7.21	
5625	Coil	1.25	38	2.01	36	2.5	
5626	Med17	1.25	82	8.03	69	10.01	
5627	Mfsd9	1.25	24	1.67	21	2.08	
5628	AC098750.6	1.25	33	1.82	25	2.27	
5629	Angel2	1.25	136	8.87	122	11.05	
5630	Cdc25b	1.25	22	1.87	21	2.33	
5631	Cdon	1.25	76	2.55	65	3.17	
5632	Cenpm	1.25	11	1.25	15	1.56	
5633	Cryz11	1.25	71	3.82	65	4.75	
5634	Cstb	1.25	201	76.31	169	95.04	
5635	Exoc7_1	1.25	0	2.67	0	3.32	
5636	Fra10ac1	1.25	39	1.74	20	2.16	
5637	Gpld1	1.25	20	0.55	14	0.68	
5638	Gps2	1.25	77	12.87	65	16.03	
5639	Igsf9b	1.25	21	0.87	14	1.09	
5640	Il17re	1.25	36	2.26	26	2.82	
5641	LOC100158225	1.25	24	2.39	20	2.98	
5642	Med27	1.25	165	15.32	149	19.09	
5643	Mre11a	1.25	137	4.85	117	6.04	
5644	Msra	1.25	33	2.5	27	3.12	
5645	Pacrgl	1.25	9	1.06	13	1.32	
5646	Pbld1	1.25	7	0.86	9	1.07	
5647	Pex3	1.25	66	5.31	51	6.62	
5648	Plekha6	1.25	8	0.3	9	0.37	
5649	Rad1	1.25	19	2.56	13	3.19	
5650	RGD1310769	1.25	84	10.36	69	12.91	
5651	RGD1562037	1.25	86	4.26	69	5.31	
5652	RGD1566136	1.25	4	3	5	3.73	
5653	Rnf182	1.25	14	1.43	12	1.78	
5654	Shf	1.25	58	5.18	51	6.45	
5655	Slc2a10	1.25	46	2.12	32	2.64	
5656	SNORD81	1.25	14	45.3	12	56.43	
5657	Sox11	1.25	7	0.87	6	1.08	
5658	Spon1	1.25	28	0.56	32	0.7	
5659	Ube2c	1.25	51	4.22	43	5.25	
5660	Wipi1	1.25	192	16.39	148	20.41	
5661	Zfp770	1.25	14	1.45	12	1.8	
5662	Ankrd53	1.25	31	0.91	32	1.13	
5663	Ccdc181	1.25	17	1.83	16	2.28	
5664	Glcci1	1.25	165	5.35	140	6.66	
5665	Ranbp6	1.25	77	5.78	65	7.2	

Supplemental Table 2
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	A	B	C	D	E	F	G
5666	Slc25a40	1.25	33	1.04	33	1.29	
5667	Smad5	1.25	212	18.94	172	23.59	
5668	Spon2_1	1.25	7	0.93	4	1.15	
5669	Vps8	1.25	187	8.02	141	9.99	
5670	Zfp51	1.25	22	2.08	21	2.59	
5671	Ube4a	1.24	447	14.97	368	18.63	
5672	Serf2	1.24	270	388.26	326	483.2	
5673	Usp28	1.24	303	11.35	250	14.13	
5674	Trmt1	1.24	228	22.52	188	28.03	
5675	Ctdp1	1.24	222	10.99	224	13.68	
5676	Dhx57	1.24	210	7.93	179	9.86	
5677	Pcmdt1	1.24	207	8.04	184	10	
5678	Asb8	1.24	141	12.31	127	15.31	
5679	Slc39a14	1.24	124	5.12	101	6.36	
5680	Rab3d	1.24	99	6.41	83	7.97	
5681	Nudt21	1.24	225	28.97	199	36.02	
5682	Bhlhb9	1.24	83	7.66	69	9.52	
5683	Spg11	1.24	263	5.08	206	6.31	
5684	Crot	1.24	99	6.9	94	8.57	
5685	Dcaf10	1.24	136	3.74	123	4.65	
5686	Smap1	1.24	274	25.27	232	31.4	
5687	C2cd2l	1.24	72	3.8	64	4.72	
5688	Scfd1	1.24	200	13.58	162	16.87	
5689	Eif4b	1.24	872	48.26	732	59.94	
5690	Slc25a22	1.24	5	16.27	5	20.2	
5691	Gorab	1.24	61	4.49	56	5.57	
5692	Etv6	1.24	362	16.91	343	20.99	
5693	LOC301124	1.24	172	29.38	146	36.46	
5694	AABR07034532.1	1.24	0	2.8	0	3.47	
5695	Adprm	1.24	53	7.66	43	9.51	
5696	Phf10	1.24	253	24.86	235	30.83	
5697	Secisbp2	1.24	151	9.46	137	11.73	
5698	Sharpin	1.24	89	12.46	76	15.45	
5699	Tchp	1.24	47	3.67	44	4.55	
5700	AABR07063425.3	1.24	11	18.58	21	23.03	
5701	Plekhm3	1.24	77	2.97	100	3.68	
5702	Papolg	1.24	78	4.08	66	5.05	
5703	Frmtd8	1.24	164	12.88	141	15.95	
5704	Prkdc	1.24	177	2.91	174	3.6	
5705	Rit1	1.24	164	20.47	117	25.35	
5706	LOC100909476	1.24	244	25.71	181	31.84	
5707	Ppip5k2	1.24	180	5.82	164	7.21	
5708	Usp54	1.24	236	6.2	204	7.67	
5709	Ube2h	1.24	1529	67.64	1298	83.73	
5710	Zfp846	1.24	33	4.09	39	5.07	
5711	Pstk	1.24	82	4.44	80	5.49	
5712	Pip4k2a	1.24	197	14.01	169	17.34	
5713	RGD1305350	1.24	295	25.86	250	32	
5714	Stag2	1.24	335	12.11	293	14.99	
5715	Zeb1	1.24	97	5.42	96	6.71	
5716	Shisa5	1.24	214	24.31	180	30.07	
5717	Ip6k2	1.24	342	16.14	344	19.96	
5718	Pdlim2	1.24	48	7.66	43	9.48	
5719	Plcl2	1.24	142	5.95	136	7.35	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5720	Slc25a38	1.24	68	6.06	52	7.49	
5721	Eif3l	1.24	131	24.62	113	30.45	
5722	LOC100910046	1.24	66	3.9	57	4.82	
5723	Rbmx	1.24	140	16	121	19.77	
5724	Zfp513	1.24	151	16.88	128	20.86	
5725	Fam175a	1.24	50	3.45	45	4.26	
5726	Mrps6	1.24	522	21.39	353	26.42	
5727	Zfp839	1.24	33	1.81	32	2.24	
5728	Faf2	1.23	302	14.62	257	18.05	
5729	Plekha5	1.23	237	6.62	187	8.17	
5730	Zfp496	1.23	281	16.72	221	20.64	
5731	Calr	1.23	2918	391.72	2479	483.6	
5732	Capn15	1.23	99	3.49	76	4.31	
5733	Edc3	1.23	114	9.6	90	11.85	
5734	Rab3gap1	1.23	195	15.58	153	19.23	
5735	Rmnd1	1.23	114	6.62	102	8.17	
5736	Fat1	1.23	6182	100.48	5218	123.96	
5737	Bccip	1.23	66	8.83	53	10.88	
5738	Dxo	1.23	41	6.03	35	7.44	
5739	Herpud2	1.23	184	13.56	123	16.71	
5740	Gnb2	1.23	1093	160.64	915	197.98	
5741	Scamp1	1.23	232	10.91	207	13.44	
5742	Itpa	1.23	144	26.17	113	32.25	
5743	Grsf1	1.23	238	18.2	209	22.42	
5744	Fam50a_2	1.23	0	8.66	0	10.67	
5745	Lsm1	1.23	57	9.43	53	11.61	
5746	Rfng	1.23	64	6.94	53	8.55	
5747	Rpia	1.23	59	6.33	43	7.79	
5748	Tbc1d22a	1.23	70	10.27	54	12.65	
5749	Xbp1	1.23	358	64.52	285	79.49	
5750	Nsmf	1.23	78	5.07	63	6.24	
5751	Tk2	1.23	74	6.15	63	7.58	
5752	Atp5o	1.23	331	93.25	280	114.82	
5753	Pspc1	1.23	273	10.04	260	12.36	
5754	Usp37	1.23	181	5.12	164	6.3	
5755	Arih2	1.23	376	16.08	291	19.8	
5756	Higd2a	1.23	88	40.29	74	49.59	
5757	Rnf181	1.23	226	27.5	202	33.84	
5758	Wapal	1.23	343	18.98	320	23.35	
5759	Tmbim4	1.23	172	42.96	146	52.85	
5760	AABR07019085.1	1.23	9	0.8	6	0.98	
5761	AC096370.3	1.23	0	1.81	0	2.23	
5762	Acsf2	1.23	46	3.15	38	3.88	
5763	Agpat1	1.23	52	28.49	98	35.02	
5764	Cnm2	1.23	133	6.93	102	8.52	
5765	E2f7	1.23	45	1.92	33	2.36	
5766	Fbrsl1	1.23	88	5.27	103	6.48	
5767	Hacd4	1.23	33	6.25	28	7.69	
5768	LOC691995	1.23	13	2.2	11	2.7	
5769	Mcm8	1.23	22	1	15	1.23	
5770	Mettl17	1.23	62	5.55	43	6.83	
5771	Rbl1	1.23	73	4.32	62	5.31	
5772	Tp53i13	1.23	54	9.14	55	11.23	
5773	Gtf2b	1.23	97	16.29	82	20.03	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5774	Ap2a1	1.23	424	29.21	373	35.91	
5775	Pcsk5	1.23	963	29.29	747	35.99	
5776	Rbm10	1.23	263	16.79	205	20.62	
5777	Ctxn1	1.23	72	14.64	61	17.98	
5778	Rbbp4	1.23	131	53.04	117	65.13	
5779	Fbxo6	1.23	144	32.47	120	39.84	
5780	Mfsd10	1.23	160	20.05	145	24.6	
5781	Oaz2	1.23	220	59.33	166	72.8	
5782	Dhx37	1.23	176	9.83	151	12.06	
5783	Mthfd1	1.23	189	14.88	172	18.25	
5784	Scrib	1.23	433	17.29	368	21.21	
5785	Hnrnpc	1.23	33	81.17	45	99.56	
5786	Ensa	1.23	192	14.41	162	17.67	
5787	Agps	1.23	130	8.24	75	10.1	
5788	Prr12	1.23	288	10.38	237	12.73	
5789	Dynll2	1.23	221	22.63	186	27.74	
5790	Vangl1	1.23	130	5.37	114	6.58	
5791	Ctcf	1.23	330	17.06	291	20.9	
5792	Prpf4b	1.22	410	19.65	340	24.07	
5793	Fip1l1	1.22	258	18.32	219	22.44	
5794	Spast	1.22	121	4.84	118	5.92	
5795	Srsf5	1.22	691	93.97	650	115.06	
5796	Timp2	1.22	313	42.9	253	52.53	
5797	Golga7	1.22	225	32.83	191	40.19	
5798	Prpf8	1.22	2089	68.68	1726	84.05	
5799	Ctsc	1.22	26	2.53	22	3.09	
5800	Fmc1	1.22	20	3.54	18	4.34	
5801	Ftsj2	1.22	25	3.08	19	3.77	
5802	Inpp5e	1.22	119	7.08	102	8.67	
5803	Taf11	1.22	59	7.97	46	9.75	
5804	Zfp865_2	1.22	92	7.44	79	9.11	
5805	Dnal1	1.22	180	3.31	151	4.06	
5806	Tnip2	1.22	48	2.96	37	3.63	
5807	Pogz	1.22	522	17.32	455	21.18	
5808	Rims2	1.22	178	2.43	148	2.97	
5809	Notch2	1.22	972	27.11	802	33.15	
5810	Clcn7	1.22	169	11.96	134	14.62	
5811	Ndc80	1.22	66	3.2	49	3.91	
5812	RGD1560065	1.22	69	7.31	46	8.92	
5813	Setd4	1.22	179	11	126	13.43	
5814	Cers2	1.22	474	41.54	387	50.71	
5815	Gpc3	1.22	32	3.37	32	4.11	
5816	Lym4	1.22	49	5.84	55	7.13	
5817	Toe1	1.22	57	6.28	50	7.67	
5818	Zdhhc6	1.22	130	14.66	115	17.89	
5819	Mcrs1	1.22	252	31.36	206	38.26	
5820	Eif4g2	1.22	2133	239.23	2143	291.88	
5821	Ccz1b	1.22	161	14.74	133	17.98	
5822	Brd3	1.22	282	18.63	241	22.72	
5823	Kif18b	1.22	62	4.05	55	4.94	
5824	Elp2	1.22	323	22.94	269	27.97	
5825	Wtap	1.22	264	15.69	228	19.13	
5826	Clk2	1.22	375	14.99	304	18.28	
5827	Dgkd	1.22	151	8.2	129	10	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5828	Spidr	1.22	101	5.01	98	6.1	
5829	Zfpm1	1.22	47	2.5	49	3.05	
5830	Morc2	1.22	214	9.67	186	11.79	
5831	Gtf2ird1	1.22	38	12.18	40	14.84	
5832	Cggbp1	1.22	440	24.79	367	30.21	
5833	Krtcap2	1.22	121	19	83	23.15	
5834	Ncbp1	1.22	179	17.47	148	21.28	
5835	Trim27	1.22	206	20.03	162	24.41	
5836	Strada	1.22	227	16.68	203	20.32	
5837	Cdc42ep4	1.22	85	6.52	72	7.93	
5838	Arhgef3	1.22	91	2.16	80	2.62	
5839	Dtx2	1.22	114	6.92	89	8.42	
5840	Tbc1d22b	1.22	101	6.35	71	7.73	
5841	Efcab14	1.22	266	10.01	211	12.19	
5842	Tle4	1.22	252	6.59	211	8.02	
5843	Pelp1	1.22	249	16.06	204	19.54	
5844	Rbm5	1.22	574	27.11	487	32.99	
5845	Stk4	1.22	341	13.44	290	16.34	
5846	Otud5	1.22	351	24.58	285	29.88	
5847	Gin1	1.22	71	3.14	59	3.82	
5848	Pcnx	1.22	481	13.79	418	16.77	
5849	Plxnb1	1.22	190	7.26	149	8.83	
5850	Mt-nd2	1.22	3813	922.56	3182	1121.4	
5851	Aasdhppt	1.22	58	12.77	51	15.52	
5852	Rbsn	1.22	197	8.75	168	10.63	
5853	Ralgds	1.21	63	4.12	50	5.01	
5854	Tmem55a	1.21	194	14.24	154	17.3	
5855	Stard7	1.21	261	16.12	211	19.58	
5856	Wdr61	1.21	99	11.08	76	13.45	
5857	Setd2	1.21	516	13.26	455	16.11	
5858	Mark3	1.21	417	18.6	356	22.58	
5859	Chd8	1.21	703	19.16	587	23.25	
5860	Hsp90b1	1.21	2519	193.8	2088	235.15	
5861	Smarca4	1.21	1150	45.82	1007	55.6	
5862	Snx2	1.21	143	14.09	123	17.09	
5863	Tet2	1.21	206	5.04	186	6.11	
5864	Rpl15	1.21	841	147.63	678	179	
5865	Ptgfrn	1.21	535	22.21	438	26.91	
5866	AC117142.1	1.21	0	0.81	0	0.98	
5867	Bbs12	1.21	12	1.19	10	1.44	
5868	Bcas2	1.21	58	10.91	48	13.21	
5869	Bola1	1.21	12	4.01	10	4.85	
5870	Chrnbl	1.21	8	0.66	5	0.8	
5871	Clcn5	1.21	50	2.54	38	3.07	
5872	Gins1	1.21	30	2.78	26	3.36	
5873	Idnk	1.21	16	0.91	21	1.1	
5874	Ift81	1.21	75	6.63	72	8.03	
5875	Irf7	1.21	23	2.27	20	2.75	
5876	Lrrc3	1.21	6	1.57	5	1.9	
5877	Mfap5	1.21	21	4.12	19	4.99	
5878	Nxt2	1.21	7	0.61	6	0.74	
5879	Pcdhgb6	1.21	34	3.71	28	4.49	
5880	Pcgf1	1.21	0	1.19	0	1.44	
5881	RGD1565904	1.21	0	3.3	0	4	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5882	1700109H08Rik	1.21	14	1.06	6	1.28	
5883	AABR07043190.1	1.21	5	1.62	3	1.96	
5884	AC117869.1	1.21	1	3.48	3	4.22	
5885	AC120727.2	1.21	0	4.93	0	5.97	
5886	Amer1	1.21	33	2.08	28	2.52	
5887	As3mt	1.21	82	4.65	100	5.63	
5888	Baz1b	1.21	675	21.44	570	25.96	
5889	Ccdc14	1.21	61	1.51	44	1.83	
5890	Cib1	1.21	109	25.51	86	30.89	
5891	Clcc1	1.21	87	5.05	72	6.11	
5892	Eno3	1.21	7	1.05	7	1.27	
5893	Fbxo4	1.21	34	3	24	3.63	
5894	Gas8	1.21	26	1.71	23	2.07	
5895	Kbtbd6_2	1.21	0	0.85	0	1.03	
5896	LOC100912599	1.21	0	7.02	0	8.5	
5897	LOC102547932	1.21	48	6.39	39	7.74	
5898	Lrrc58	1.21	200	29.31	157	35.5	
5899	03/09/15	1.21	31	5.64	16	6.83	
5900	Pdgfra	1.21	14	0.46	11	0.56	
5901	Ppm1m	1.21	21	1.85	18	2.24	
5902	Rn60_20_0032.5	1.21	34	0.8	38	0.97	
5903	snoR38_1	1.21	6	19.67	4	23.82	
5904	Vamp4	1.21	84	3.2	85	3.87	
5905	Wfdc2	1.21	38	10.23	42	12.38	
5906	Raver1	1.21	422	26.83	333	32.48	
5907	Kdm3b	1.21	517	16.77	421	20.29	
5908	Pgam1	1.21	1023	150.33	832	181.87	
5909	Polr2e	1.21	180	38.46	144	46.51	
5910	Slc4a7	1.21	194	8.56	169	10.35	
5911	Tmem98	1.21	279	44.93	231	54.32	
5912	Dnajb12	1.21	261	19.93	204	24.1	
5913	Jkamp	1.21	138	20.38	109	24.64	
5914	Usp34	1.21	653	14.5	526	17.52	
5915	St3gal2	1.21	694	56.55	576	68.34	
5916	Slc25a44	1.21	129	6.84	105	8.27	
5917	LOC100361830	1.21	161	18.12	123	21.9	
5918	Polr2b	1.21	314	18.89	252	22.82	
5919	Brwd3	1.21	90	3.55	76	4.29	
5920	Ppm1f	1.21	177	8.2	152	9.9	
5921	Hmox1	1.21	82	11.3	66	13.64	
5922	Med12l	1.21	178	3.31	170	3.99	
5923	Htatsf1	1.21	150	10.71	125	12.93	
5924	Fam171a1	1.21	84	6.26	68	7.55	
5925	Ptrh2	1.21	73	5.7	63	6.88	
5926	Vbp1	1.21	147	27.78	135	33.54	
5927	Rqcd1	1.21	217	13.62	172	16.43	
5928	Tpd52	1.21	133	11.32	117	13.66	
5929	Pex11b	1.21	64	9.39	51	11.33	
5930	Echdc1	1.21	68	7.09	55	8.55	
5931	Ctdsp2	1.21	153	50.83	136	61.31	
5932	Cd48	1.21	309	35.04	218	42.27	
5933	Arhgap19	1.21	52	2.37	42	2.86	
5934	Mapk14	1.21	478	19.3	383	23.26	
5935	Ttc13	1.21	365	20.46	288	24.66	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5936	AABR07010563.1	1.21	41	13.68	38	16.48	
5937	Rcan3	1.21	73	9.39	50	11.31	
5938	Zbtb40	1.21	73	2.55	52	3.07	
5939	Stt3a	1.2	784	21.86	642	26.34	
5940	Cep68	1.2	176	12.37	131	14.91	
5941	Trpm7	1.2	297	8.52	236	10.26	
5942	Gatad2b	1.2	285	16.15	269	19.45	
5943	Uggt1	1.2	781	20.44	655	24.62	
5944	Nod1	1.2	91	4.22	65	5.08	
5945	Dtl	1.2	40	2.72	37	3.27	
5946	Tmem109	1.2	180	22.28	151	26.82	
5947	E4f1	1.2	132	9.03	101	10.87	
5948	Tbcd	1.2	278	12.75	243	15.35	
5949	Edem2	1.2	119	13.09	111	15.76	
5950	Pygo2	1.2	283	24.47	235	29.45	
5951	Kdm8	1.2	80	6.52	66	7.85	
5952	Tbl1xr1	1.2	148	4.11	128	4.95	
5953	Ptpre	1.2	531	33.64	483	40.47	
5954	Ubp1	1.2	252	15.92	201	19.16	
5955	Ankrd42	1.2	55	2.61	45	3.14	
5956	Psmg3	1.2	67	18.22	55	21.92	
5957	Top2a	1.2	229	9.81	184	11.79	
5958	Mycbp2	1.2	406	9.09	337	10.93	
5959	Clk3	1.2	238	21.19	183	25.47	
5960	Mcm10	1.2	57	2.57	47	3.09	
5961	Jak1	1.2	1411	74.73	1157	89.78	
5962	Dus3l	1.2	67	9.34	64	11.22	
5963	Zfp512b	1.2	405	16.15	311	19.4	
5964	Zxdc	1.2	145	9.51	118	11.42	
5965	Gtf3c5	1.2	147	10.68	114	12.83	
5966	Ptp4a1	1.2	14	26.88	10	32.29	
5967	Cadps2	1.2	104	2.54	99	3.05	
5968	Mterfd1	1.2	95	3.07	68	3.69	
5969	Tm4sf1	1.2	46	5.88	40	7.06	
5970	Zbed5	1.2	45	11.52	41	13.83	
5971	Slc39a1	1.2	604	60.56	484	72.68	
5972	Cs	1.2	624	95.47	514	114.57	
5973	Tyms	1.2	121	17.74	101	21.28	
5974	Ung	1.2	78	8.38	64	10.05	
5975	Kif13a	1.2	616	14.4	528	17.26	
5976	Hes6	1.2	84	14.08	70	16.88	
5977	Yipf4	1.2	133	16.43	105	19.69	
5978	Coq6	1.2	97	11.15	77	13.36	
5979	Mastl	1.2	132	1.83	146	2.2	
5980	Med26	1.2	72	2.59	61	3.1	
5981	Uqcc2	1.2	40	19.89	30	23.85	
5982	Bsg	1.2	1062	153.13	869	183.54	
5983	Fdft1	1.2	671	45.92	580	55.03	
5984	Ddx17	1.2	1718	71.94	1562	86.2	
5985	Ctsa	1.2	942	104.02	785	124.63	
5986	Ints4	1.2	165	10.29	158	12.33	
5987	Slc35a4	1.2	296	29.73	245	35.61	
5988	Sod1	1.2	607	220.3	495	263.82	
5989	Hdac2	1.2	381	39.01	303	46.71	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
5990	Dpf2	1.2	437	38.66	343	46.28	
5991	Arhgef18	1.2	274	8.53	207	10.22	
5992	Sidt2	1.2	538	27.12	429	32.46	
5993	Zfp213	1.2	34	1.76	50	2.11	
5994	AABR07058466.1	1.2	11	2.5	10	2.99	
5995	Cmc1	1.2	26	6.27	28	7.5	
5996	Hexb	1.2	86	7.86	92	9.4	
5997	LOC688452	1.2	198	3.81	107	4.56	
5998	Mtif3	1.2	48	5.43	45	6.5	
5999	Rn60_10_0892.1	1.2	34	3.31	27	3.96	
6000	Rps6ka1	1.2	21	1.17	17	1.4	
6001	RT1-CE7	1.2	9	1.73	9	2.07	
6002	Uck2	1.2	62	5.19	35	6.21	
6003	Ube2r2	1.2	438	62.94	351	75.32	
6004	Nrd1	1.2	453	22.39	367	26.79	
6005	Ar	1.2	199	7.78	155	9.3	
6006	Slc25a11	1.2	132	26.84	110	32.1	
6007	Clec2g	1.2	156	17.45	134	20.86	
6008	Ube2s	1.2	494	135.12	405	161.51	
6009	Hinfp	1.2	74	8.49	59	10.15	
6010	Zfp787	1.2	113	8.16	74	9.75	
6011	Atp5a1	1.2	1787	237.06	1454	283.32	
6012	Dus1l	1.19	68	4.75	57	5.68	
6013	Fopnl	1.19	109	15.41	83	18.41	
6014	Plagl2	1.19	96	4.11	75	4.91	
6015	Sirt7	1.19	71	6.44	56	7.7	
6016	Galnt1	1.19	264	31.85	226	38.05	
6017	Ubr4	1.19	1779	26.61	1455	31.79	
6018	Abca1	1.19	494	12.99	377	15.51	
6019	Prkcsb	1.19	675	78.6	547	93.86	
6020	Arf6	1.19	286	62.13	234	74.18	
6021	Fbxw11	1.19	435	19.14	358	22.85	
6022	Lrrc40	1.19	98	6.85	82	8.18	
6023	Mrpl4	1.19	122	17.77	100	21.22	
6024	N4bp3_1	1.19	0	2.39	0	2.86	
6025	Stxbp4	1.19	95	5.69	86	6.79	
6026	Tbca_1	1.19	236	114.97	201	137.21	
6027	Hs6st1	1.19	897	47.33	736	56.49	
6028	Ccng1	1.19	581	44.31	474	52.87	
6029	Ppm1g	1.19	280	29.65	230	35.37	
6030	Arf5	1.19	410	94.76	335	113.04	
6031	Arel1	1.19	254	9.79	204	11.68	
6032	Samm50	1.19	174	21.52	139	25.66	
6033	Znrd1	1.19	55	11.53	39	13.74	
6034	Tmem186	1.19	41	4.76	36	5.67	
6035	Tiparp	1.19	241	21.8	190	25.99	
6036	Ergic2	1.19	164	18.51	135	22.06	
6037	Tfam	1.19	125	14.59	86	17.39	
6038	Ptprf	1.19	1026	32.76	839	39.03	
6039	Lrrc49	1.19	72	4.2	62	5	
6040	Rce1	1.19	56	8.81	43	10.5	
6041	Mpi	1.19	82	10.03	66	11.94	
6042	Sec62	1.19	275	28.1	218	33.46	
6043	Wac	1.19	342	36.31	289	43.22	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6044	Tcf12	1.19	424	19.91	362	23.69	
6045	RGD1309621	1.19	259	12.1	213	14.39	
6046	Bend7	1.19	40	2.12	33	2.52	
6047	Dolpp1	1.19	52	4.73	40	5.62	
6048	Rps6ka6	1.19	24	1.26	21	1.5	
6049	AABR07006458.1	1.19	25	4.21	19	5.01	
6050	Chtf18	1.19	24	1.55	18	1.84	
6051	Ddias	1.19	24	1.65	19	1.96	
6052	Dgka	1.19	102	5.42	78	6.44	
6053	LOC100909750	1.19	11	3.19	7	3.79	
6054	Mien1	1.19	56	21.9	45	26.03	
6055	Ppp2r5a	1.19	105	9.5	90	11.3	
6056	Ptch1	1.19	177	4.74	139	5.64	
6057	Rn60_1_1361.1	1.19	8	0.35	9	0.41	
6058	Rpl35a_4	1.19	0	8.23	0	9.79	
6059	Vash1	1.19	23	2.61	18	3.1	
6060	Vav2	1.19	82	2.65	74	3.16	
6061	Zfp2	1.19	22	1.32	14	1.57	
6062	Smad4	1.19	401	40.88	318	48.58	
6063	Tmem33	1.19	223	8.69	164	10.33	
6064	Tead2	1.19	317	32.37	253	38.45	
6065	Zfp574	1.19	147	11.14	111	13.24	
6066	Epdr1	1.19	138	14.24	111	16.92	
6067	Leprot1	1.19	278	23.04	228	27.37	
6068	LOC294154	1.19	92	26.03	70	30.91	
6069	Cuta	1.19	127	32.51	96	38.61	
6070	Mphosph8	1.19	3	7.89	11	9.37	
6071	Tars2	1.19	114	8.67	94	10.3	
6072	Emc1	1.19	397	15.62	331	18.55	
6073	Synm	1.19	235	7.51	189	8.91	
6074	Chtf8	1.19	550	42.39	429	50.32	
6075	Fry	1.19	107	1.58	79	1.88	
6076	Fam208a	1.19	185	6.72	166	7.98	
6077	Prickle2	1.19	170	3.89	134	4.62	
6078	Slc39a10	1.19	716	34.8	588	41.29	
6079	Mphosph9	1.19	73	1.78	53	2.11	
6080	Foxj3	1.19	233	10.13	189	12.02	
6081	Pdcd7	1.19	73	5.41	62	6.42	
6082	Pgm1	1.19	167	16.06	139	19.06	
6083	Slc4a2	1.19	457	27.11	381	32.16	
6084	Arfgap2	1.19	421	34.4	330	40.8	
6085	Got2	1.19	481	50.51	391	59.88	
6086	Rpl39_7	1.19	16	185.65	18	220.08	
6087	Bloc1s4	1.19	38	7.25	31	8.59	
6088	Cuedc2	1.19	58	6.26	42	7.42	
6089	Fahd2a	1.18	71	7.82	59	9.27	
6090	Ttbk2	1.18	81	3.65	80	4.32	
6091	Rab11b	1.18	569	68.55	441	81.2	
6092	Grik5	1.18	249	9.68	194	11.47	
6093	Ncdn	1.18	198	11.86	151	14.04	
6094	Arl6	1.18	44	3.63	34	4.3	
6095	Cgrrf1	1.18	58	5.09	51	6.02	
6096	Metap1	1.18	191	15.31	163	18.13	
6097	Phldb3	1.18	34	3.51	32	4.16	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6098	Pms1	1.18	44	2.26	37	2.68	
6099	Vwa9	1.18	143	11.87	117	14.05	
6100	Nubp2	1.18	97	17.39	83	20.58	
6101	Ndufa10	1.18	277	29.76	216	35.22	
6102	Erp44	1.18	231	29.1	173	34.43	
6103	Tmem18	1.18	135	8.97	106	10.61	
6104	Ssna1	1.18	89	26.29	70	31.1	
6105	Rer1	1.18	223	38.32	174	45.29	
6106	Rhog	1.18	150	14.06	119	16.62	
6107	Jmy	1.18	102	6.42	95	7.59	
6108	Eif2b5	1.18	276	20.56	215	24.3	
6109	Fam193b	1.18	407	11.86	273	14.01	
6110	Chd3	1.18	1058	36.17	854	42.72	
6111	Kansl1	1.18	335	18.88	274	22.29	
6112	Acbd4	1.18	28	2.23	29	2.64	
6113	Adgrg6	1.18	23	0.58	21	0.69	
6114	Akap7	1.18	46	3.76	38	4.44	
6115	Bdh2	1.18	59	6.9	45	8.14	
6116	Fam53a	1.18	97	3.76	78	4.44	
6117	Hs1bp3	1.18	83	5.25	58	6.2	
6118	Mppe1	1.18	112	6.93	75	8.18	
6119	Nol7	1.18	78	8.19	73	9.67	
6120	RGD1565033	1.18	32	3.87	26	4.57	
6121	Wdr25	1.18	50	2.12	49	2.5	
6122	Zfp853	1.18	18	1.61	16	1.9	
6123	LOC689757	1.18	80	3.96	64	4.68	
6124	Arl2bp	1.18	378	43.13	311	50.9	
6125	Taf1c	1.18	98	6.89	76	8.12	
6126	Zfp367	1.18	75	3.78	51	4.46	
6127	Usp3	1.18	196	12.8	187	15.09	
6128	Slc31a2	1.18	47	5.22	41	6.15	
6129	Hist1h1c	1.18	34	14.43	28	17	
6130	Acadvl	1.18	166	17.5	140	20.61	
6131	Ptcd3	1.18	211	12.74	170	15.01	
6132	Msto1	1.18	44	7.33	33	8.63	
6133	Syf2	1.18	125	20.84	105	24.54	
6134	Fam114a2	1.18	113	13.12	96	15.45	
6135	Gucy1a3	1.18	714	29.17	556	34.34	
6136	Ccdc106	1.18	35	5.13	33	6.03	
6137	Dnajc12	1.18	21	4.19	19	4.92	
6138	Fbxw9	1.18	54	5.48	40	6.44	
6139	Rbmx2	1.18	21	3.02	16	3.55	
6140	RGD1563365	1.18	45	8.8	34	10.35	
6141	Nol9	1.18	110	9.76	79	11.48	
6142	Klf3	1.18	242	10.74	180	12.63	
6143	Srebf1	1.18	491	26.8	399	31.51	
6144	Lman2	1.18	482	57.98	372	68.18	
6145	N4bp2l2	1.18	152	16.46	126	19.35	
6146	LOC361646	1.18	167	3.94	126	4.63	
6147	Osbpl2	1.18	147	10.09	114	11.86	
6148	Marcks	1.18	715	42.44	575	49.89	
6149	Hnrnp1l	1.18	322	31.57	256	37.1	
6150	Nisch	1.18	2134	87.81	1644	103.18	
6151	Nacc1	1.18	760	41.37	582	48.61	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6152	Aptx	1.17	82	8.29	71	9.74	
6153	Mrps21	1.17	73	17.93	86	21.07	
6154	Mrps31	1.17	77	7.5	70	8.81	
6155	Srp9	1.17	58	8.82	50	10.36	
6156	Ngfrap1	1.17	1855	577.37	1463	678.29	
6157	Tsku	1.17	75	7.07	63	8.3	
6158	Spty2d1	1.17	182	9.54	152	11.2	
6159	Gbbp1l2	1.17	15	1.95	11	2.29	
6160	Hdac10	1.17	38	3.04	30	3.57	
6161	Vps13d	1.17	573	8.32	463	9.76	
6162	Orc2	1.17	158	6.88	119	8.07	
6163	Pycl	1.17	88	14.1	70	16.54	
6164	Ext1	1.17	1506	70.46	1144	82.65	
6165	Letm1	1.17	222	18.19	173	21.33	
6166	Hdhd2	1.17	142	5.78	146	6.78	
6167	Mb21d2	1.17	149	9.11	124	10.69	
6168	Arhgef2	1.17	401	19.68	319	23.07	
6169	Atp6v0c	1.17	749	146.77	571	172.07	
6170	Atp2a2	1.17	1361	48.29	1104	56.61	
6171	Vta1	1.17	177	27.08	139	31.75	
6172	Hm13	1.17	677	42.13	475	49.37	
6173	Arap1	1.17	252	10.66	209	12.49	
6174	Dcaf13	1.17	125	15.48	97	18.14	
6175	Irf9	1.17	37	4.83	29	5.66	
6176	RGD1562747	1.17	32	2.51	27	2.94	
6177	Trpm4	1.17	36	1.59	27	1.86	
6178	Agpat9	1.17	43	2.53	30	2.97	
6179	Kalrn	1.17	86	0.82	87	0.97	
6180	Sars2	1.17	33	3.17	34	3.72	
6181	LOC100360645	1.17	5479	1651.93	4446	1935.57	
6182	Sf3b1	1.17	1173	54.27	988	63.58	
6183	Pigk	1.17	321	44.46	256	52.06	
6184	Hnrnpul1	1.17	980	59.26	772	69.4	
6185	Dlc1	1.17	126	5.64	99	6.6	
6186	Scmh1	1.17	158	10.09	123	11.82	
6187	Max	1.17	163	17.41	125	20.39	
6188	Armcx5	1.17	36	5.26	28	6.16	
6189	Lamtor2	1.17	80	31.25	66	36.59	
6190	Sh3pxd2a	1.17	49	2.44	54	2.85	
6191	Ptges3	1.17	477	67.14	360	78.57	
6192	Nsrp1	1.17	106	6.08	83	7.11	
6193	LOC497934	1.17	37	5.51	29	6.44	
6194	Gas2l3	1.17	47	1.57	36	1.83	
6195	Rrm1	1.17	255	20.78	205	24.3	
6196	Rnf38	1.17	169	13.46	126	15.74	
6197	Ctnnbip1	1.17	132	8.53	109	9.98	
6198	Slc35c1	1.17	95	6.74	74	7.89	
6199	Dnajc7	1.17	351	30.12	283	35.21	
6200	Orc4	1.17	94	6.97	86	8.14	
6201	Taf6l	1.17	64	5.69	55	6.65	
6202	Tomm34	1.17	117	12.86	75	15.03	
6203	Aurka	1.17	53	4.86	38	5.68	
6204	Ndufa7	1.17	208	96.72	168	113.05	
6205	Commd8	1.17	53	9.18	45	10.73	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6206	Iah1	1.17	111	27.87	91	32.55	
6207	Memo1	1.17	214	19.24	204	22.48	
6208	Rtf1	1.17	327	14.69	245	17.16	
6209	Plekhm1	1.17	137	4.51	101	5.27	
6210	Cep250	1.17	128	3.7	108	4.32	
6211	Zfp263	1.17	70	5.72	53	6.68	
6212	Asxl1	1.17	375	15.57	308	18.18	
6213	Zfp148	1.17	303	19.19	257	22.4	
6214	AABR07061902.1	1.17	53	12.67	46	14.78	
6215	Klhdc8b	1.17	71	5.94	62	6.93	
6216	Lrrc1	1.17	98	5.54	87	6.47	
6217	Prkrir	1.17	265	19.61	212	22.89	
6218	Tbc1d10b	1.17	216	13.23	170	15.44	
6219	Thyn1	1.17	112	16.11	100	18.79	
6220	Phip	1.17	249	10.06	206	11.73	
6221	Pla2g4b	1.17	90	5.06	75	5.9	
6222	Stxbp2	1.17	160	16.71	145	19.49	
6223	Swi5	1.17	331	105.12	270	122.63	
6224	Papola	1.17	677	27.22	501	31.75	
6225	Elf2	1.17	212	9.77	169	11.4	
6226	LOC606294	1.17	88	7.83	74	9.13	
6227	Pacs1	1.17	235	13.99	207	16.31	
6228	Fbxo18	1.17	605	34.91	485	40.7	
6229	Ccdc9	1.17	149	12.17	137	14.19	
6230	Ncoa5	1.17	290	14.56	222	16.97	
6231	Gne	1.17	125	8.19	95	9.54	
6232	Plcg1	1.17	867	40.02	693	46.63	
6233	Slc30a9	1.17	296	21.71	222	25.3	
6234	Atr	1.17	137	3.02	123	3.51	
6235	RGD1311783	1.17	109	12.32	96	14.35	
6236	Stub1	1.17	154	40.66	117	47.38	
6237	Clpx	1.17	133	11.57	116	13.48	
6238	Tnip1	1.17	239	19.31	205	22.5	
6239	Rell1	1.16	269	16.05	204	18.69	
6240	Mxra8	1.16	124	12.56	97	14.63	
6241	LOC619574	1.16	147	14.15	113	16.48	
6242	Rfx7	1.16	343	8.47	284	9.87	
6243	Pdcl	1.16	95	12.27	76	14.29	
6244	Thoc5	1.16	212	19.96	167	23.24	
6245	Rnpepl1	1.16	242	18.28	200	21.28	
6246	Zfp260_2	1.16	158	18.11	124	21.07	
6247	AABR07036452.1	1.16	5	1.24	6	1.45	
6248	AABR07037536.1	1.16	3	0.39	1	0.45	
6249	AABR07050438.1	1.16	134	1.54	106	1.79	
6250	AABR07071661.1	1.16	9	0.4	17	0.46	
6251	AC117925.6	1.16	0	2.33	0	2.71	
6252	Adcyap1	1.16	20	1.61	15	1.88	
6253	Ankrd39	1.16	11	0.46	8	0.54	
6254	Dnajc24	1.16	14	1.57	14	1.83	
6255	Endov	1.16	31	2.76	26	3.21	
6256	ENSRNOG00000053	1.16	0	1.29	0	1.5	
6257	Exosc6	1.16	5	1.52	4	1.77	
6258	Gns_1	1.16	0	0.66	0	0.76	
6259	Ift57	1.16	58	3.91	45	4.55	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6260	Iqcc	1.16	13	0.99	16	1.15	
6261	Klhl40	1.16	14	1.1	9	1.28	
6262	Lhfpl1	1.16	7	0.59	4	0.68	
6263	LOC100911746	1.16	1	3.89	1	4.52	
6264	LOC100912262	1.16	0	0.33	0	0.38	
6265	LOC102548225	1.16	5	0.55	5	0.64	
6266	LOC297756	1.16	1	1.81	0	2.1	
6267	LOC681367	1.16	5	3.61	4	4.2	
6268	Lrrc75b	1.16	44	1.68	33	1.95	
6269	Mdp1	1.16	35	3.94	26	4.59	
6270	Mrpl35	1.16	64	9.17	49	10.66	
6271	Nek11	1.16	14	0.47	17	0.55	
6272	Pank2	1.16	125	8.06	105	9.37	
6273	Ppil1	1.16	67	7.5	62	8.72	
6274	Pycard	1.16	6	1.34	4	1.56	
6275	Rdh16	1.16	103	0.53	70	0.62	
6276	Rfx3	1.16	49	1.73	68	2.01	
6277	RGD1306954	1.16	54	7.23	47	8.4	
6278	RGD1308923	1.16	25	3.93	24	4.57	
6279	RGD1311745	1.16	15	3.98	12	4.62	
6280	RGD1560470	1.16	5	0.43	4	0.5	
6281	RGD1565862	1.16	97	1.24	95	1.44	
6282	Rn60_13_0828.1	1.16	7	0.32	5	0.37	
6283	Slc35d1	1.16	86	4.5	67	5.23	
6284	Tbx10	1.16	6	1.2	8	1.4	
6285	Tigd3	1.16	5	0.79	4	0.91	
6286	Tmem81	1.16	7	0.76	7	0.89	
6287	Topbp1	1.16	174	7.18	126	8.35	
6288	Ttc12	1.16	13	1.13	12	1.31	
6289	Twist1	1.16	31	4.65	24	5.4	
6290	Vash2	1.16	52	2.32	44	2.7	
6291	Zbtb8b	1.16	6	0.46	6	0.54	
6292	Zfp626	1.16	3	1.65	4	1.92	
6293	Zfp956	1.16	35	3.11	32	3.62	
6294	5_8S_rRNA_27	1.16	0	8.14	0	9.47	
6295	AABR07035802.1	1.16	5	0.58	5	0.68	
6296	AABR07037058.1	1.16	7	4.15	11	4.83	
6297	AC114446.1	1.16	0	2.05	2	2.38	
6298	Ccdc65	1.16	21	1.32	11	1.53	
6299	Cyp2c13_2	1.16	6	1.45	7	1.68	
6300	Dr1_2	1.16	1	4.02	0	4.67	
6301	Fam72a	1.16	8	1.76	5	2.05	
6302	Fbxo25	1.16	37	3.49	26	4.06	
6303	Rsph9	1.16	14	1.11	10	1.29	
6304	St8sia1	1.16	7	0.69	8	0.8	
6305	Uhrf2	1.16	321	12.54	255	14.58	
6306	Trappc10	1.16	395	12.04	300	13.99	
6307	Prdm2	1.16	431	12.54	334	14.56	
6308	Tmem30a	1.16	343	41.37	268	48.06	
6309	Mapkapk2	1.16	789	67.77	596	78.69	
6310	Zfp384	1.16	291	15.18	227	17.63	
6311	Sipa1l1	1.16	211	7.33	177	8.51	
6312	Psmd2	1.16	1215	100.9	962	117.13	
6313	Acvr1	1.16	184	10.91	136	12.66	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6314	Chd4	1.16	1679	60.63	1319	70.34	
6315	Maf1	1.16	228	33.45	184	38.79	
6316	Sp1	1.16	390	12.31	313	14.27	
6317	Chrac1	1.16	97	28.05	81	32.52	
6318	Dbt	1.16	102	7.04	78	8.16	
6319	Dnaaf5	1.16	105	6.44	87	7.46	
6320	Mttr10	1.16	97	4.51	89	5.22	
6321	Syngap1	1.16	112	4.11	102	4.76	
6322	Sap130	1.16	420	20.26	343	23.48	
6323	Ncaph2	1.16	277	26.93	219	31.22	
6324	Vps11	1.16	348	22.45	280	26.01	
6325	Gon4l	1.16	241	5.19	209	6.01	
6326	Ttll4	1.16	169	9.95	122	11.52	
6327	Xylb	1.16	93	4.71	82	5.46	
6328	Acy1	1.16	78	10.12	57	11.72	
6329	Ahcyl2	1.16	128	3.14	96	3.64	
6330	Pdp1	1.16	132	11.51	102	13.32	
6331	Llgl1	1.16	400	26.97	316	31.23	
6332	Atp6v1e1	1.16	229	34.07	182	39.44	
6333	Hsdl1	1.16	66	7.98	51	9.24	
6334	Prr14l	1.16	335	6.72	261	7.77	
6335	Bcap31	1.16	270	46.89	203	54.27	
6336	Heg1	1.16	744	26.14	591	30.25	
6337	Ankrd26	1.16	73	1.98	63	2.29	
6338	Hmbs	1.16	60	8.01	50	9.27	
6339	Zfp275	1.16	231	8.47	169	9.8	
6340	Mapk1ip1	1.16	49	8.62	39	9.97	
6341	Myg1	1.16	109	21.01	92	24.3	
6342	Rabgef1	1.16	116	8.64	95	9.99	
6343	Tbpl1	1.16	92	9.74	84	11.27	
6344	09/15/15	1.16	533	71.85	400	83.09	
6345	03/08/15	1.16	224	10.88	193	12.58	
6346	Ankzf1	1.16	177	13.27	142	15.35	
6347	LOC100360635	1.16	29	55.7	15	64.41	
6348	Pcdhgc3	1.16	421	17.06	334	19.72	
6349	Grb2_2	1.16	361	43.48	273	50.26	
6350	Nap1l4	1.16	408	38.71	318	44.75	
6351	Banp	1.16	202	10.44	168	12.07	
6352	Ccdc32	1.16	57	4.64	46	5.37	
6353	Mef2bnb	1.16	66	30.2	48	34.91	
6354	Ngdn	1.16	109	18.24	88	21.09	
6355	Zfp709	1.16	57	3.99	46	4.61	
6356	Crat	1.16	142	13.72	103	15.86	
6357	Pgls	1.16	82	8.18	63	9.45	
6358	Sco1	1.16	43	6.16	32	7.11	
6359	Mtx1	1.16	165	12	154	13.86	
6360	Zhx2	1.16	63	3.4	54	3.93	
6361	Gpr173	1.16	52	2.36	44	2.73	
6362	Cdc5l	1.15	350	29.62	287	34.21	
6363	Pdk1	1.15	88	11.52	77	13.3	
6364	Eral1	1.15	85	8.33	69	9.62	
6365	Mzt2b	1.15	38	6.98	32	8.05	
6366	Mier3	1.15	155	6.73	121	7.76	
6367	Ric1	1.15	246	10.78	207	12.44	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6368	Acox1	1.15	361	19.58	314	22.58	
6369	Yeats2	1.15	391	13.66	339	15.75	
6370	Secisbp2l	1.15	662	23.72	543	27.36	
6371	Ncln	1.15	419	32.9	336	37.93	
6372	Mrps16	1.15	59	23.81	47	27.44	
6373	Npat	1.15	225	7.06	179	8.14	
6374	Ttc14	1.15	74	4.96	67	5.72	
6375	Tbc1d9b	1.15	391	14.92	304	17.19	
6376	Vdac2	1.15	607	78.06	481	89.94	
6377	Prkra	1.15	219	22.23	168	25.61	
6378	Ggps1	1.15	154	4.96	107	5.72	
6379	Herc4	1.15	208	7.21	155	8.31	
6380	Rbm26	1.15	487	14.73	385	16.96	
6381	Zdhhc8	1.15	210	14.28	163	16.45	
6382	Slbp	1.15	175	24.68	135	28.42	
6383	Nfe2l2	1.15	542	50.01	426	57.6	
6384	Rpl4	1.15	1986	422.34	1561	486.33	
6385	Ttc4	1.15	86	4.7	76	5.41	
6386	Rabgap1	1.15	576	20.07	429	23.1	
6387	Ppib	1.15	759	186.87	597	215.02	
6388	Cep112	1.15	104	1.73	99	1.99	
6389	Ss18l1	1.15	36	4.5	34	5.18	
6390	Trmt10b	1.15	46	4.6	45	5.29	
6391	Uba1	1.15	1287	87.99	1020	101.22	
6392	Adck4	1.15	92	5.71	72	6.56	
6393	Bnip1	1.15	39	5.41	30	6.22	
6394	Rpl7a_2	1.15	0	29.97	0	34.48	
6395	Tbc1d8	1.15	59	1.2	48	1.38	
6396	Rgs12	1.15	151	4.73	129	5.44	
6397	Zfyve26	1.15	231	5.4	192	6.21	
6398	Tmed3	1.15	186	33.49	147	38.51	
6399	Ppan	1.15	103	13.89	83	15.97	
6400	Ogdh	1.15	310	39.29	276	45.17	
6401	Suco	1.15	234	9.72	176	11.18	
6402	Snx8	1.15	91	6.38	77	7.33	
6403	Mcm5	1.15	181	13.94	143	16.03	
6404	Rdx	1.15	206	24.47	165	28.13	
6405	Dffb	1.15	65	4.3	57	4.94	
6406	Gpn1	1.15	178	12.88	134	14.79	
6407	Cpsf3	1.15	187	18.63	154	21.4	
6408	Cecr5	1.15	83	8.17	77	9.39	
6409	Srsf3	1.15	621	55.46	558	63.69	
6410	Mtf2	1.15	144	7.92	119	9.09	
6411	Rarg	1.15	100	4.88	75	5.61	
6412	Zfp451	1.15	306	5.13	287	5.89	
6413	Gigyf2	1.15	258	6.83	227	7.84	
6414	Scyl2	1.15	306	13.41	237	15.39	
6415	Gmeb2	1.15	91	4.17	69	4.79	
6416	Mmachc	1.15	23	2.47	19	2.83	
6417	Mycbp	1.15	63	9.25	50	10.61	
6418	Nckipsd	1.15	66	3.86	49	4.43	
6419	Nudt4	1.15	188	14.56	152	16.71	
6420	Poc5	1.15	48	2.04	41	2.35	
6421	Slc9a5	1.15	27	1.14	25	1.31	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6422	Tubg2	1.15	17	2.93	10	3.36	
6423	Fancc	1.15	70	1.93	54	2.21	
6424	Tmco4	1.15	34	1.4	32	1.6	
6425	Ttll1	1.15	30	2.47	26	2.84	
6426	Usp35	1.15	40	1.57	23	1.8	
6427	Suv420h1	1.15	251	7.56	215	8.67	
6428	LOC100911672	1.15	111	28.07	70	32.19	
6429	Agpat6	1.15	332	22.97	266	26.33	
6430	Mgst2	1.15	119	58.4	102	66.95	
6431	Atrnl1	1.15	126	3.2	111	3.66	
6432	Vma21	1.15	33	4.31	26	4.95	
6433	Dgkq	1.15	156	6.76	109	7.74	
6434	Kif3b	1.15	132	4.97	113	5.69	
6435	Stard3	1.15	241	18.53	175	21.23	
6436	Rpl19	1.15	1021	484.86	903	555.21	
6437	Dnajc25	1.14	47	6.47	33	7.41	
6438	Gng10	1.14	243	53.69	193	61.47	
6439	SNORD39	1.14	0	208.16	0	238.32	
6440	Ppp1r9a	1.14	189	5.2	219	5.95	
6441	Scaf1	1.14	518	29.75	404	34.04	
6442	Zfp775	1.14	96	3.03	66	3.46	
6443	Klhdc10	1.14	381	14.62	313	16.73	
6444	Slc25a46	1.14	130	7.31	95	8.35	
6445	Bsdc1	1.14	342	26.13	260	29.86	
6446	RGD1309362	1.14	115	25.82	97	29.5	
6447	LOC100911537	1.14	213	6.54	165	7.47	
6448	Ccny	1.14	222	29.61	186	33.82	
6449	Ift88	1.14	90	3.36	82	3.83	
6450	Mlycd	1.14	126	10.18	102	11.63	
6451	Nus1	1.14	197	12.44	151	14.21	
6452	Orai3	1.14	29	2.49	23	2.84	
6453	RGD1307315	1.14	18	1.78	13	2.03	
6454	RGD1564804	1.14	18	2.78	16	3.17	
6455	Snta1	1.14	39	3.33	33	3.8	
6456	Stx1b	1.14	29	1.17	24	1.33	
6457	Yme1l1	1.14	0	1.62	0	1.85	
6458	Ehbp1	1.14	278	6.75	267	7.7	
6459	Il1rap	1.14	72	2.05	63	2.35	
6460	Jrk	1.14	42	4.39	33	5.01	
6461	Mdk	1.14	101	33.87	81	38.67	
6462	Nrp1	1.14	148	6.24	119	7.13	
6463	Oscp1	1.14	337	2.22	334	2.54	
6464	Rpp40	1.14	23	2.54	17	2.9	
6465	Tsc2	1.14	319	11.96	248	13.65	
6466	Sh2b1	1.14	210	13.21	154	15.08	
6467	Cops4	1.14	369	41.05	291	46.83	
6468	Txndc11	1.14	256	13.95	180	15.91	
6469	Mrpl15	1.14	80	7.25	66	8.27	
6470	Zfp414	1.14	59	11.35	45	12.93	
6471	Rnf44	1.14	370	20.61	288	23.48	
6472	Tm2d2	1.14	93	17.05	76	19.43	
6473	Zfp386	1.14	158	6.19	147	7.05	
6474	Trim35	1.14	1025	45.85	680	52.23	
6475	Bpnt1	1.14	78	9.17	70	10.45	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6476	Napg	1.14	142	7.71	115	8.78	
6477	Zfand6	1.14	218	17.91	178	20.4	
6478	Nbn	1.14	141	10.32	120	11.76	
6479	Vwa8	1.14	54	6.39	42	7.28	
6480	Ogfr	1.14	205	22.63	177	25.77	
6481	Ints6	1.14	192	7.38	139	8.4	
6482	Lrch4	1.14	146	10.91	119	12.43	
6483	Gtf2e1	1.14	102	8.39	77	9.56	
6484	Nipsnap3b	1.14	71	12.95	49	14.75	
6485	Tm9sf2	1.14	518	39.46	413	44.91	
6486	Colgalt1	1.14	475	39.29	373	44.72	
6487	Rev1	1.14	219	8.38	173	9.53	
6488	Txndc15	1.14	163	24.9	137	28.33	
6489	Armc1	1.14	78	13.81	64	15.7	
6490	Ccdc28a	1.14	31	4.8	33	5.45	
6491	Proser2	1.14	32	1.25	24	1.42	
6492	Eme2	1.14	54	10.19	44	11.59	
6493	Taf15	1.14	337	18.89	316	21.48	
6494	Zmym6nb	1.14	23	5.55	21	6.32	
6495	Igf1r	1.14	2693	97.52	1964	110.89	
6496	Camk1	1.14	120	11.3	95	12.84	
6497	Prkacb	1.14	105	22.43	85	25.49	
6498	Fktn	1.14	273	9.99	210	11.36	
6499	Cebpb	1.14	55	9.82	42	11.15	
6500	Crtc2	1.14	194	15.85	148	18.01	
6501	Hpcal1	1.14	256	24.62	182	27.97	
6502	Lrrc8b	1.14	143	12.96	114	14.72	
6503	Mesdc2	1.14	431	53.29	337	60.53	
6504	Mdm4	1.14	211	11.43	203	12.98	
6505	Wdr3	1.14	133	8.66	110	9.84	
6506	Cd2bp2	1.14	247	21.08	195	23.94	
6507	Asmtl	1.14	44	7.42	29	8.42	
6508	Mrpl45	1.14	99	10.85	79	12.32	
6509	Ccdc22	1.14	56	6.2	44	7.04	
6510	Cdc14a	1.14	95	1.78	67	2.02	
6511	Ralgapb	1.14	493	13.96	390	15.85	
6512	Josd1	1.13	179	15.57	136	17.67	
6513	Zfr	1.13	684	27	530	30.64	
6514	Inpp5f	1.13	120	5.46	97	6.19	
6515	Erccl	1.13	101	21.21	78	24.05	
6516	Noc4l	1.13	96	12.91	75	14.64	
6517	Nradd	1.13	106	20.75	85	23.51	
6518	Mob4	1.13	136	10.89	98	12.34	
6519	Tgif2	1.13	106	10.2	77	11.56	
6520	Lamtor3	1.13	82	13.99	66	15.85	
6521	Ccdc137	1.13	71	5.54	61	6.28	
6522	Slc24a5	1.13	87	10.36	66	11.74	
6523	Tyw1	1.13	71	6.26	61	7.09	
6524	Ptpn11	1.13	1062	43.24	811	48.97	
6525	Rptor	1.13	286	7.92	246	8.97	
6526	Tcf3	1.13	447	30.78	323	34.85	
6527	Urm1	1.13	102	17.21	82	19.48	
6528	Zc3hav1	1.13	478	21.09	367	23.87	
6529	Grwd1	1.13	103	11.76	76	13.32	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6530	Ndufa6	1.13	130	54.46	108	61.63	
6531	Rnf115	1.13	162	15.58	138	17.63	
6532	Uqcrc1	1.13	429	60.63	324	68.6	
6533	Pomgnt1	1.13	446	39.32	343	44.46	
6534	Ccdc136	1.13	101	4.09	82	4.62	
6535	Dnajc30	1.13	18	4.2	14	4.75	
6536	LOC100360750	1.13	0	3.44	0	3.89	
6537	LOC100910792	1.13	18	2	17	2.25	
6538	Pcdh19	1.13	34	1.55	28	1.75	
6539	Prkab2	1.13	94	3.15	65	3.56	
6540	Rn60_13_0829.4	1.13	10	2.27	8	2.57	
6541	Serpinf1	1.13	9	1.45	9	1.64	
6542	Snrnp35	1.13	39	6.08	37	6.87	
6543	Susd1	1.13	45	1.9	44	2.15	
6544	Tmem107	1.13	19	4.32	19	4.88	
6545	Tspy15	1.13	9	1.82	7	2.06	
6546	Txnl4b	1.13	60	7.9	43	8.92	
6547	Acap2	1.13	271	12.14	211	13.72	
6548	Carkd	1.13	99	10.22	83	11.55	
6549	Ciao1	1.13	58	8.22	48	9.29	
6550	Cish	1.13	21	1.42	17	1.6	
6551	Dusp23	1.13	13	2.6	7	2.94	
6552	Fam135a	1.13	180	4.95	154	5.59	
6553	Hadha	1.13	585	42.6	469	48.14	
6554	Helq	1.13	36	1.16	31	1.31	
6555	LOC100360977	1.13	4	11.68	3	13.2	
6556	Pdpf	1.13	78	27.18	56	30.72	
6557	Rcc1	1.13	76	5.48	52	6.19	
6558	Slc25a37	1.13	44	1.42	16	1.61	
6559	Snrnp40	1.13	144	14.54	114	16.43	
6560	Stard5	1.13	30	5.6	24	6.33	
6561	Stat2	1.13	207	12.26	166	13.86	
6562	Tgm2	1.13	10	0.64	7	0.72	
6563	Psma3	1.13	259	24.22	242	27.37	
6564	Zfp638	1.13	344	10.78	268	12.17	
6565	Ube2k	1.13	316	10.58	244	11.95	
6566	lpo13	1.13	186	11.58	144	13.08	
6567	Rbbp6	1.13	373	11.97	298	13.51	
6568	Atad1	1.13	250	13.37	197	15.09	
6569	B4gal7	1.13	105	13.51	86	15.24	
6570	Lap3	1.13	207	21.43	161	24.18	
6571	Grpel2	1.13	139	6.38	98	7.2	
6572	Usp7	1.13	555	35.11	420	39.62	
6573	Kif22	1.13	79	8.04	68	9.07	
6574	Phlda3	1.13	76	13.31	61	15.01	
6575	Tnrc6c	1.13	198	6.54	153	7.37	
6576	Txndc12	1.13	332	35.57	212	40.12	
6577	Kif20a	1.13	68	5.72	50	6.45	
6578	Wdhd1	1.13	93	3.96	65	4.47	
6579	Atxn7l3b	1.13	448	31.97	349	36.05	
6580	Tmem165	1.13	174	16.65	133	18.77	
6581	Kptn	1.13	68	7.59	54	8.56	
6582	B3galnt1	1.13	69	7.65	48	8.63	
6583	Rfx5	1.13	163	9.31	128	10.49	

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Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6584	Usp20	1.13	188	6.81	129	7.67	
6585	Ace	1.13	97	3.5	71	3.94	
6586	Snn	1.13	128	10.29	104	11.59	
6587	Dock10	1.13	68	1.26	71	1.42	
6588	LOC691170	1.13	58	4.28	38	4.82	
6589	Cldn12	1.13	76	5.09	57	5.72	
6590	Tmem222	1.13	127	12.41	81	13.97	
6591	Nutf2	1.13	371	44.74	276	50.36	
6592	Hspa14	1.13	137	14.47	105	16.29	
6593	Vps54	1.13	202	8.05	151	9.06	
6594	Alkbh5	1.12	315	14.56	250	16.38	
6595	Abcf3	1.12	144	12.26	110	13.79	
6596	Exosc1	1.12	65	13.14	49	14.78	
6597	Lamtor4	1.12	11	12.77	10	14.36	
6598	Pop7	1.12	32	9.16	24	10.31	
6599	Tango6	1.12	116	4.27	98	4.8	
6600	Phc2	1.12	457	20.74	316	23.32	
6601	Anks3	1.12	80	4.72	86	5.3	
6602	Vps13c	1.12	155	3.04	134	3.42	
6603	Ccnh	1.12	107	9.43	103	10.6	
6604	Hsd17b7	1.12	30	6.7	26	7.54	
6605	RGD1563861	1.12	1348	501.91	1085	564.16	
6606	Zfp219	1.12	211	20.79	174	23.37	
6607	Atp5l	1.12	183	89.85	143	100.95	
6608	Ankrd46	1.12	200	21.59	155	24.26	
6609	Agfg2	1.12	95	5.66	74	6.35	
6610	Col6a3	1.12	47	1	34	1.12	
6611	Dnajc15	1.12	68	10.81	66	12.14	
6612	Grpel1	1.12	156	33.48	119	37.6	
6613	Papss2	1.12	65	3.03	58	3.41	
6614	Polr3a	1.12	175	6.57	137	7.38	
6615	Gins2	1.12	70	3.92	55	4.4	
6616	Ilf3	1.12	457	23.1	357	25.93	
6617	Ndufaf7	1.12	32	2.31	20	2.6	
6618	Aldoa	1.12	3113	489.05	2382	548.95	
6619	Afg3l2	1.12	198	11.75	174	13.19	
6620	Zfp277	1.12	244	14.85	221	16.66	
6621	Luc7l	1.12	220	17.32	195	19.44	
6622	Gpx7	1.12	473	98.6	367	110.64	
6623	Tkt	1.12	944	98.49	704	110.52	
6624	Dgcr8	1.12	249	9.88	172	11.09	
6625	Dnajc14	1.12	213	15.28	161	17.14	
6626	Cpd	1.12	883	40.9	682	45.89	
6627	RGD1560108	1.12	159	8.9	122	9.99	
6628	Bcl2l1	1.12	204	9.56	173	10.73	
6629	Eif4a3	1.12	426	65.61	325	73.62	
6630	Qser1	1.12	510	12.33	389	13.83	
6631	Tmeff2	1.12	687	16.51	407	18.51	
6632	Asun	1.12	168	9.48	113	10.63	
6633	AABR07028995.2	1.12	0	19.82	0	22.22	
6634	Skp1	1.12	587	90.84	443	101.83	
6635	Zfand2b	1.12	37	6.76	31	7.57	
6636	LOC100362640	1.12	16	241.56	5	270.77	
6637	Suclg1	1.12	308	30.29	244	33.95	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6638	Dpp9	1.12	376	23.79	280	26.66	
6639	Fam160b1	1.12	224	18.32	172	20.53	
6640	Kmt2b	1.12	409	11.35	309	12.72	
6641	Atad5	1.12	61	1.97	56	2.21	
6642	Impdh2	1.12	267	38.46	203	43.08	
6643	Tiprl	1.12	152	15.63	102	17.5	
6644	Adamts7	1.12	191	7.46	150	8.35	
6645	B3galnt2	1.12	84	3.67	75	4.11	
6646	Akr1b1	1.12	4280	853.46	3236	955.5	
6647	Pole3	1.12	117	12.96	91	14.51	
6648	Dcp2_1	1.12	13	6.46	18	7.23	
6649	Ahcy	1.12	261	31.66	198	35.43	
6650	Senp2	1.12	117	10.39	79	11.63	
6651	Acin1	1.12	1202	41.49	1000	46.43	
6652	Etnk1	1.12	428	11.56	318	12.94	
6653	Ppapdc1b	1.12	138	16.81	111	18.81	
6654	Tspan14	1.12	176	16.92	122	18.93	
6655	Zfp445	1.12	189	11.8	133	13.2	
6656	Pip4k2c	1.12	208	14.94	149	16.71	
6657	Crybg3	1.12	69	2.61	50	2.92	
6658	Dnajb14	1.12	181	5.15	112	5.76	
6659	Itgb3bp	1.12	31	2.23	42	2.49	
6660	Lppr2	1.12	15	1.13	10	1.26	
6661	Mark2	1.12	279	13.38	220	14.96	
6662	mrpl9	1.12	92	12.6	67	14.08	
6663	Pck2	1.12	92	10.09	76	11.28	
6664	Rab23	1.12	246	10.52	165	11.76	
6665	Zfp618	1.12	106	4.13	89	4.62	
6666	Ago3	1.12	51	2.06	49	2.31	
6667	Gltpd2	1.12	13	1.33	10	1.48	
6668	Kin	1.12	49	4.42	39	4.94	
6669	Pex11a	1.12	39	2.8	29	3.13	
6670	Sssca1	1.12	52	12.29	42	13.74	
6671	Lrp10	1.12	522	43.74	400	48.88	
6672	Mttr9	1.12	250	9.8	187	10.95	
6673	Slc15a4	1.12	103	8.67	81	9.68	
6674	Sf3b5	1.12	272	95.19	209	106.28	
6675	Ccnt2	1.12	318	9.7	274	10.82	
6676	Mcm7	1.12	228	22.07	179	24.63	
6677	Sephs1	1.12	265	9.83	218	10.98	
6678	Pias1	1.12	168	12.7	123	14.17	
6679	Tmem208	1.12	60	17.49	50	19.51	
6680	Aamp	1.12	370	32.3	280	36.03	
6681	Cog7	1.12	128	8.76	90	9.77	
6682	Mt-nd4	1.12	6541	1190.86	4996	1328.2	
6683	LOC100363472	1.12	50	6.09	40	6.8	
6684	Ankrd52	1.12	802	25.52	616	28.46	
6685	Slc25a39	1.12	286	49.66	218	55.38	
6686	Asah1	1.11	471	40.21	366	44.82	
6687	Rn60_X_0746.3	1.11	73	25.09	56	27.97	
6688	LOC100361087	1.11	86	3.13	66	3.49	
6689	Gfod2	1.11	64	3.66	55	4.08	
6690	Gm17296	1.11	73	1.58	59	1.76	
6691	Lrsam1	1.11	50	3.42	37	3.81	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6692	Lsg1	1.11	123	8.49	124	9.46	
6693	Ndufaf5	1.11	69	6.53	36	7.28	
6694	Zfp865_1	1.11	28	3.16	21	3.52	
6695	Cbx4	1.11	88	13.27	68	14.77	
6696	Nnt	1.11	599	34.64	485	38.56	
6697	Strn4	1.11	383	19.56	320	21.77	
6698	Setd1a	1.11	463	18.07	347	20.11	
6699	Hk1	1.11	329	24.99	241	27.81	
6700	Pgrmc1	1.11	316	47.14	216	52.45	
6701	Arvcf	1.11	77	4.24	54	4.72	
6702	Tmem147	1.11	71	18.31	62	20.37	
6703	Tomm7	1.11	62	42.41	49	47.18	
6704	Bbx	1.11	182	10.24	151	11.38	
6705	Trak2	1.11	376	11.6	267	12.89	
6706	Atat1	1.11	219	8.95	172	9.95	
6707	Npc2	1.11	660	108.91	507	121.07	
6708	Khsrp	1.11	419	29.35	312	32.62	
6709	Ankrd13d	1.11	21	1.74	20	1.93	
6710	Coa4	1.11	17	3.11	13	3.45	
6711	Glod4	1.11	121	17.44	102	19.38	
6712	Mrpl39	1.11	55	8.38	43	9.31	
6713	Nt5e	1.11	67	1.35	78	1.5	
6714	Pcbd2	1.11	25	11.03	26	12.26	
6715	Rn60_6_1241.2	1.11	56	1.8	41	2	
6716	ST7	1.11	89	5.14	68	5.72	
6717	Zfp560	1.11	17	1.32	14	1.47	
6718	Comm2	1.11	71	7.11	52	7.9	
6719	Med31	1.11	25	4.14	23	4.61	
6720	Tbrg1	1.11	72	62.08	38	68.99	
6721	Tm9sf3	1.11	524	57.38	395	63.76	
6722	Uqcc3	1.11	35	12.28	31	13.64	
6723	Slfn13	1.11	346	15.67	294	17.41	
6724	Erlin1	1.11	218	16.88	166	18.75	
6725	AABR07029710.1	1.11	0	9.56	2	10.62	
6726	Mmp14	1.11	623	62.37	476	69.23	
6727	Nt5c2	1.11	181	18	135	19.98	
6728	Phf14	1.11	263	8.65	234	9.6	
6729	Rpap2	1.11	92	4.21	70	4.67	
6730	Rundc1	1.11	68	7.42	54	8.23	
6731	Ctbp1	1.11	840	88.33	637	97.98	
6732	Msh6	1.11	249	12.71	181	14.1	
6733	Alkbh1	1.11	157	7.94	126	8.81	
6734	Dusp18	1.11	171	9.14	140	10.14	
6735	Tcaf1	1.11	176	11.05	132	12.26	
6736	Mcts1	1.11	69	6.62	70	7.34	
6737	Slc25a17	1.11	134	10.82	144	12	
6738	Vrk1	1.11	85	5.04	70	5.59	
6739	Adnp2	1.11	191	10.74	154	11.91	
6740	Brk1	1.11	230	35.27	164	39.1	
6741	Katnb1	1.11	73	5.94	52	6.59	
6742	Hadhb	1.11	255	30.2	189	33.47	
6743	Ndufs2	1.11	403	58.76	303	65.11	
6744	Araf	1.11	264	21.57	189	23.9	
6745	Hmgxb4	1.11	158	7.45	140	8.26	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6746	Tnks	1.11	473	15.58	338	17.25	
6747	Ikbpap	1.11	259	13.33	207	14.76	
6748	Mkrn3	1.11	21	3.3	16	3.65	
6749	Zmym4	1.11	324	8.63	261	9.56	
6750	Fkbp14	1.11	78	7.79	51	8.63	
6751	Ints2	1.11	126	4.65	94	5.15	
6752	Kifap3	1.11	213	10.02	160	11.09	
6753	Pmf1	1.11	42	8.59	42	9.51	
6754	Ppp1r7	1.11	136	16.98	101	18.8	
6755	Psrc1	1.11	45	5.72	34	6.33	
6756	Rbpj_1	1.11	12	3.56	8	3.94	
6757	rnf141	1.11	63	10.73	61	11.88	
6758	Nup93	1.11	209	15.93	178	17.63	
6759	Nup133	1.11	164	8.94	121	9.89	
6760	Carhsp1	1.11	499	39.35	371	43.54	
6761	Prkab1	1.11	137	13.22	109	14.62	
6762	Itgb1bp1	1.11	146	16.84	100	18.63	
6763	Ormdl2	1.11	93	20.72	75	22.93	
6764	Spsb3	1.11	169	9.95	112	11.01	
6765	Top2b	1.11	494	18.54	393	20.52	
6766	Ndufs1	1.11	222	20.24	201	22.39	
6767	Lrrk1	1.11	100	2.14	73	2.37	
6768	Mfap3	1.11	147	17.55	112	19.41	
6769	Sepsecs	1.11	67	3.2	48	3.53	
6770	Cwc15	1.11	67	13.12	56	14.5	
6771	Sdc4	1.11	298	28.44	219	31.43	
6772	Cdc26	1.11	81	11.22	74	12.4	
6773	Nfya	1.11	290	18.71	230	20.67	
6774	Cad	1.1	345	12.62	267	13.94	
6775	Ptms	1.1	474	107.04	351	118.25	
6776	Bcar3	1.1	763	36.74	581	40.58	
6777	Fundc2	1.1	107	17.84	95	19.7	
6778	Atp6v1h	1.1	179	18.01	137	19.89	
6779	Btbd8_1	1.1	8	1.52	8	1.68	
6780	Hmgb2	1.1	14	10.81	18	11.94	
6781	Hsd17b8	1.1	26	4.07	22	4.49	
6782	Ing3	1.1	61	5.78	46	6.38	
6783	Trmt61a	1.1	135	4.83	116	5.33	
6784	Ufsp2	1.1	95	12.17	85	13.44	
6785	Zbtb17	1.1	161	11.25	124	12.42	
6786	Flrt3	1.1	1633	87.92	1257	97.08	
6787	Ranbp3	1.1	250	26.64	199	29.42	
6788	Asnsd1	1.1	131	15.07	98	16.64	
6789	Atg5	1.1	113	10.16	115	11.21	
6790	Traf6	1.1	102	7.27	71	8.03	
6791	Gsk3b	1.1	331	25.91	222	28.59	
6792	Rai1	1.1	448	11.32	382	12.49	
6793	Sec23b	1.1	304	24.03	237	26.52	
6794	Sumo2	1.1	144	116.28	111	128.31	
6795	Tgds	1.1	93	6.91	83	7.62	
6796	Ube2d1	1.1	72	9.89	49	10.92	
6797	Cetn2	1.1	57	10.54	43	11.63	
6798	Sox12	1.1	54	13.19	41	14.55	
6799	Wdr4	1.1	84	3.73	64	4.11	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6800	Pnlsr	1.1	384	18.15	345	20.03	
6801	Plekha3	1.1	157	20.14	115	22.22	
6802	Arfgef1	1.1	540	16.07	378	17.73	
6803	Ccdc115	1.1	116	14.9	85	16.43	
6804	Lamtor1	1.1	143	67.4	164	74.31	
6805	Nit1	1.1	138	20.93	117	23.07	
6806	Stx17	1.1	46	4.36	48	4.8	
6807	Tmem199	1.1	59	10.75	45	11.85	
6808	Ufl1	1.1	175	9.41	131	10.37	
6809	Cbx8	1.1	32	5.32	22	5.87	
6810	Malt1	1.1	76	2.93	51	3.23	
6811	Ppp1r26	1.1	108	8.89	84	9.79	
6812	Baz2a	1.1	322	14.49	247	15.97	
6813	Cdc34	1.1	186	42.36	144	46.69	
6814	Ubap1	1.1	219	17.58	173	19.37	
6815	Akap8	1.1	256	13.52	189	14.89	
6816	Psmd6	1.1	209	34.78	166	38.31	
6817	Eif3k	1.1	266	61.67	229	67.91	
6818	Vdac3	1.1	412	69.23	309	76.24	
6819	Get4	1.1	217	23.12	167	25.45	
6820	Clspn	1.1	22	1.63	15	1.79	
6821	Nlr1	1.1	39	2.82	33	3.1	
6822	Alg1	1.1	54	4.53	30	4.98	
6823	Dhx38	1.1	283	14.86	207	16.36	
6824	Wdr60	1.1	48	2.36	52	2.6	
6825	Zfp668	1.1	91	4.87	70	5.37	
6826	Eif2ak1	1.1	255	22.27	195	24.51	
6827	Ciz1	1.1	246	10.55	197	11.61	
6828	Dctn3	1.1	126	26.85	89	29.54	
6829	Cyfp2	1.1	403	13.4	307	14.74	
6830	Gphn	1.1	163	8.73	145	9.6	
6831	Med13	1.1	648	18.98	477	20.88	
6832	Camta1_1	1.1	96	5.52	70	6.08	
6833	Eif6	1.1	382	73.9	290	81.27	
6834	Traf4	1.1	123	14.3	96	15.72	
6835	Smchd1	1.1	297	10.01	234	11	
6836	Nup188	1.1	635	29.22	465	32.11	
6837	Cpox	1.1	83	7.43	69	8.16	
6838	Prmt3	1.1	101	7.44	76	8.18	
6839	Fbxl5	1.1	183	10.89	137	11.97	
6840	Mcf2	1.1	173	21.96	136	24.13	
6841	Atp6v1a	1.1	274	18.31	214	20.11	
6842	Jade3	1.1	123	9.09	83	9.98	
6843	Mrps27	1.1	165	9.52	108	10.45	
6844	Hif1an	1.1	56	8.38	36	9.2	
6845	Zfp612	1.1	72	5.53	48	6.07	
6846	Senp6	1.1	595	25.28	473	27.75	
6847	Zfp180	1.1	163	9.08	120	9.96	
6848	Arhgap31	1.1	592	17.98	404	19.73	
6849	Fam45a	1.1	81	9.45	56	10.37	
6850	Bend3	1.1	57	3.33	43	3.65	
6851	LOC688708	1.1	260	12.16	150	13.33	
6852	Mat2b	1.1	221	21.01	158	23.03	
6853	Dennd5b	1.1	249	10.36	183	11.35	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6854	Limk1	1.1	83	4.58	56	5.02	
6855	Slc39a5	1.1	61	5.37	46	5.89	
6856	Ubxn6	1.1	143	14.81	112	16.22	
6857	Ap5m1	1.1	91	5.4	77	5.92	
6858	Mbd6	1.1	125	8.14	94	8.92	
6859	Map3k10	1.1	95	4.58	77	5.02	
6860	Pik3c2b	1.1	93	1.78	64	1.95	
6861	Clint1	1.1	459	24.56	341	26.89	
6862	Skp2	1.1	87	5.79	62	6.35	
6863	Arnt2	1.09	187	6.17	134	6.75	
6864	Card6	1.09	238	8.85	183	9.68	
6865	Ppp2r3a	1.09	224	3.64	166	3.99	
6866	RGD1304884	1.09	90	5.67	70	6.21	
6867	Tsta3	1.09	100	15.25	74	16.68	
6868	Pak3	1.09	107	9.82	87	10.74	
6869	Fbxo33	1.09	135	8.2	98	8.96	
6870	Zfp354c	1.09	139	4.83	109	5.28	
6871	Kif5b	1.09	980	70.49	757	77.04	
6872	Cmas	1.09	151	18.42	109	20.13	
6873	Fam219b	1.09	135	10.68	112	11.67	
6874	Osbpl5	1.09	488	23.74	365	25.94	
6875	Daxx	1.09	178	14.73	117	16.1	
6876	Snapin	1.09	162	25.65	128	28.02	
6877	Tcf7l1	1.09	362	11.8	254	12.89	
6878	Rpl10a	1.09	103	215.71	117	235.47	
6879	Huwe1	1.09	1418	25.91	1036	28.24	
6880	AABR07026893.1	1.09	10	15.33	7	16.71	
6881	Nhp2_2	1.09	2	16.68	2	18.17	
6882	AABR07002885.1	1.09	0	0.29	0	0.32	
6883	AABR07064634.1	1.09	0	2.58	2	2.81	
6884	AABR07072539.3	1.09	0	1.17	0	1.27	
6885	AC103129.3	1.09	7	3.08	5	3.35	
6886	Adcy7	1.09	11	0.48	8	0.52	
6887	Ampd3	1.09	4	0.25	3	0.28	
6888	B4galt6	1.09	76	2.26	59	2.46	
6889	Bub1b	1.09	70	3.42	53	3.73	
6890	Cables2	1.09	45	4.84	34	5.28	
6891	Cactin	1.09	100	7.42	75	8.09	
6892	Casc1	1.09	22	0.77	41	0.84	
6893	Ccdc127	1.09	36	7.15	29	7.79	
6894	Ccdc176	1.09	34	0.45	21	0.49	
6895	Ccdc90b	1.09	57	9.17	50	9.99	
6896	Cd109	1.09	11	0.38	7	0.41	
6897	Cenpi	1.09	40	1.5	25	1.63	
6898	Cenpk	1.09	13	0.61	6	0.66	
6899	Clcn2	1.09	0	0.93	0	1.02	
6900	Emx2	1.09	4	0.34	3	0.37	
6901	Fxn	1.09	39	7.47	36	8.14	
6902	Galnt1l6_2	1.09	6	1.52	5	1.66	
6903	Gpr63	1.09	9	0.41	7	0.45	
6904	Hipk4	1.09	13	0.42	3	0.45	
6905	Hpx	1.09	7	0.64	4	0.69	
6906	Incenp	1.09	108	6.43	83	7.01	
6907	Khk	1.09	8	0.7	11	0.76	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6908	Klc3	1.09	6	0.57	2	0.62	
6909	LOC100360726	1.09	28	1.46	21	1.59	
6910	LOC100362338	1.09	0	5.99	0	6.52	
6911	LOC498122	1.09	36	5.6	27	6.1	
6912	Lyz2	1.09	6	1.68	4	1.83	
6913	Mamdc4	1.09	11	0.26	10	0.28	
6914	Med8	1.09	20	7.69	16	8.38	
6915	Medag	1.09	8	0.45	7	0.49	
6916	Mpeg1	1.09	4	0.44	3	0.48	
6917	Mtx3	1.09	44	4.33	34	4.72	
6918	Nop9	1.09	93	8.49	59	9.25	
6919	Nrg2	1.09	26	0.31	23	0.34	
6920	Nsun6	1.09	52	2.94	38	3.2	
6921	Nudt18	1.09	38	6.47	29	7.05	
6922	Ormdl1	1.09	71	2.7	39	2.94	
6923	Papd4	1.09	189	12.96	138	14.12	
6924	Pcdhgb1	1.09	3	0.49	5	0.53	
6925	Polr3c	1.09	139	12.22	113	13.32	
6926	Prr16	1.09	4	0.36	3	0.39	
6927	Prr7	1.09	8	2.05	6	2.24	
6928	Rap1gap	1.09	7	0.3	6	0.33	
6929	Rhbdd2	1.09	85	10.55	66	11.5	
6930	Rin1	1.09	0	0.2	0	0.22	
6931	Rn60_4_2163.2	1.09	0	5.01	1	5.46	
6932	Rph3al	1.09	9	0.5	22	0.55	
6933	Rpl36al_1	1.09	0	3.1	0	3.38	
6934	Rpl37-ps1	1.09	0	3.39	0	3.69	
6935	Rwdd2a	1.09	5	0.66	4	0.72	
6936	Sac3d1	1.09	30	5.45	23	5.94	
6937	Shank2_2	1.09	11	0.31	9	0.34	
6938	Slc26a10	1.09	5	0.34	2	0.37	
6939	SNORA44_18	1.09	0	7.73	0	8.42	
6940	SNORD123	1.09	4	14.24	3	15.52	
6941	Snx32	1.09	25	1.64	8	1.79	
6942	Spink13	1.09	37	1.53	92	1.66	
6943	St14	1.09	11	0.62	7	0.68	
6944	Tceanc	1.09	4	0.93	3	1.01	
6945	Triqk	1.09	23	2.6	13	2.84	
6946	Zfp362	1.09	89	11.89	77	12.96	
6947	Zfp383_2	1.09	0	0.38	0	0.42	
6948	Zfp536	1.09	17	0.46	13	0.5	
6949	Zfp711	1.09	48	1.49	37	1.62	
6950	Zkscan2	1.09	9	0.3	7	0.33	
6951	Zrsr2	1.09	62	2.73	59	2.97	
6952	AABR07024908.1	1.09	0	2.97	0	3.23	
6953	Adamts16	1.09	40	1.09	24	1.19	
6954	Apom	1.09	7	1.01	3	1.1	
6955	Daam1	1.09	447	15.15	352	16.52	
6956	Fblim1	1.09	9	0.33	5	0.36	
6957	Fmo4	1.09	6	0.42	5	0.46	
6958	Fmod	1.09	8	0.56	7	0.61	
6959	Hiat1_2	1.09	0	1.07	0	1.17	
6960	Il3ra	1.09	48	6.39	49	6.97	
6961	Rbm46	1.09	6	0.56	4	0.61	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
6962	Relt	1.09	31	2.52	23	2.74	
6963	Serf1	1.09	9	4.34	10	4.73	
6964	Hspa5	1.09	3183	309.46	2384	337.05	
6965	Srsf1	1.09	663	31.65	490	34.46	
6966	Pxdn	1.09	670	34.63	492	37.7	
6967	Brd1	1.09	486	17.22	346	18.75	
6968	Ssr2	1.09	445	100.24	335	109.07	
6969	Atp6v0e1	1.09	242	22.2	177	24.16	
6970	Il4r	1.09	400	25.89	316	28.16	
6971	Mt-atp6	1.09	7688	2829	5723	3076.79	
6972	Gtf3c4	1.09	292	9.92	206	10.78	
6973	Tmem185a	1.09	151	13.18	106	14.32	
6974	Gosr2	1.09	284	31	215	33.69	
6975	Pitpnm1	1.09	139	7.36	100	8	
6976	Uqcrc2	1.09	385	52.46	293	56.97	
6977	RGD1309188	1.09	95	8.19	71	8.89	
6978	Supt5h	1.09	740	48.81	569	53	
6979	Umps	1.09	94	13.45	71	14.6	
6980	Vhl	1.09	190	15.71	141	17.06	
6981	Abhd17b	1.09	152	8.77	89	9.52	
6982	Polr3b	1.09	115	5.25	83	5.7	
6983	Rab35	1.09	181	19.81	136	21.5	
6984	Rnf214	1.09	117	8.51	92	9.24	
6985	Lancl2	1.09	91	11.31	71	12.28	
6986	Narfl	1.09	87	7.31	62	7.93	
6987	Nsfl1c	1.09	384	53.64	292	58.21	
6988	Dicer1	1.09	342	7.78	252	8.45	
6989	Nhlrc3	1.08	108	9.28	79	10.07	
6990	Sdf2	1.08	265	29.62	184	32.13	
6991	Fads1	1.08	657	46.32	490	50.24	
6992	LOC100912380	1.08	0	71.43	0	77.48	
6993	Mtch2	1.08	215	49.1	166	53.25	
6994	Lrrc8a	1.08	492	34.36	364	37.26	
6995	Anks1a	1.08	554	15.16	417	16.42	
6996	Hmg20a	1.08	301	15.62	227	16.92	
6997	Ptpn2	1.08	130	8.76	113	9.49	
6998	Smek1	1.08	293	18.09	232	19.58	
6999	Zeb2	1.08	855	33.44	689	36.19	
7000	LOC100909464	1.08	170	27.83	123	30.11	
7001	Pkn1	1.08	290	18.65	215	20.17	
7002	Fcho2	1.08	206	7.16	157	7.75	
7003	Clu	1.08	1765	230.58	1294	249.42	
7004	Diablo	1.08	87	25.61	58	27.7	
7005	Ddx59	1.08	63	4.99	43	5.39	
7006	Pdia6	1.08	1120	156.43	826	169.16	
7007	Pex16	1.08	46	6.91	36	7.47	
7008	Ptdss1	1.08	216	17.36	165	18.76	
7009	Rbm38	1.08	70	5.75	37	6.22	
7010	Trim46	1.08	51	2.66	39	2.87	
7011	Ahcyl1	1.08	489	32.44	366	35.03	
7012	Fam64a	1.08	38	6.07	24	6.56	
7013	Gemin8	1.08	44	7.52	34	8.12	
7014	Cenpf	1.08	78	1.73	56	1.87	
7015	Necap2	1.08	251	26.53	185	28.63	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7016	Rab5a	1.08	80	16.03	40	17.3	
7017	Surf4	1.08	1049	64.53	776	69.61	
7018	Mtor	1.08	495	12.26	367	13.22	
7019	Jak2	1.08	157	6.66	105	7.18	
7020	Ubr2	1.08	649	21.05	477	22.71	
7021	Abi2	1.08	216	19.25	135	20.75	
7022	Mrps12	1.08	33	10.74	26	11.58	
7023	Acox3	1.08	158	8.93	107	9.63	
7024	Fuk	1.08	73	4.01	64	4.32	
7025	Mrpl50	1.08	29	4.32	18	4.65	
7026	Copb1	1.08	632	46.06	480	49.66	
7027	Atp11a	1.08	382	13.02	282	14.03	
7028	Zmym2	1.08	311	14.41	234	15.53	
7029	Srrt	1.08	262	40	203	43.1	
7030	Bre	1.08	125	9.43	131	10.16	
7031	Trappc3	1.08	141	21.33	125	22.98	
7032	AABR07063544.1	1.08	6	21.86	7	23.54	
7033	Sike1	1.08	96	8.92	66	9.6	
7034	Smarcc2	1.08	511	27.24	378	29.33	
7035	Zfp9	1.08	54	5.87	41	6.32	
7036	Zfp933	1.08	26	4.05	19	4.35	
7037	Nkiras2	1.08	110	12.06	80	12.98	
7038	Polr3f	1.08	108	4.39	72	4.72	
7039	Tbc1d2	1.08	39	1.56	36	1.68	
7040	Slc12a6	1.08	191	6.13	146	6.6	
7041	Zyg11b	1.08	129	9.7	102	10.44	
7042	Zfx	1.08	286	8.5	219	9.15	
7043	Elov1	1.08	318	46.37	239	49.86	
7044	Tada3	1.08	127	12.86	94	13.83	
7045	Atrip	1.08	36	4.71	46	5.06	
7046	Wdr77	1.08	0	4.25	0	4.57	
7047	Ppp2r4	1.08	820	72.28	563	77.7	
7048	Exoc3	1.07	165	14.49	121	15.58	
7049	Flad1	1.07	83	6.36	66	6.84	
7050	Slc38a7	1.07	168	9.61	138	10.33	
7051	Tpgs2	1.07	158	39.84	128	42.81	
7052	Bard1	1.07	50	1.65	27	1.77	
7053	Cpsf4	1.07	96	13.35	63	14.34	
7054	Dnajb6	1.07	228	11.7	143	12.57	
7055	Rab31	1.07	205	10.28	150	11.04	
7056	Sowahc	1.07	161	8.98	118	9.65	
7057	Ttc19	1.07	68	5.22	53	5.61	
7058	Zbtb37	1.07	30	2.32	23	2.49	
7059	Irgq	1.07	25	2.87	22	3.09	
7060	Heatr6	1.07	200	11.03	150	11.84	
7061	Asph	1.07	353	5.65	226	6.07	
7062	Cwc25	1.07	86	5.06	57	5.43	
7063	Adipor1	1.07	598	68.66	447	73.67	
7064	Dmxl2	1.07	51	0.99	38	1.06	
7065	Fam178a	1.07	270	7.46	212	8	
7066	Sgta	1.07	279	23.97	218	25.7	
7067	Tpd52l2	1.07	159	15.2	141	16.3	
7068	Chp1	1.07	206	25.08	154	26.89	
7069	Rn60_1_1359.1	1.07	90	4.6	62	4.93	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7070	RGD1561931	1.07	172	4.89	131	5.24	
7071	Gprasp2	1.07	143	12.42	106	13.32	
7072	Aak1	1.07	225	3.22	220	3.45	
7073	Mcm9	1.07	98	2.49	92	2.67	
7074	RGD1307235	1.07	220	5.57	160	5.97	
7075	Rnf41	1.07	426	32.34	311	34.66	
7076	Nfia	1.07	935	32.08	722	34.38	
7077	Rps17	1.07	25	405.43	37	434.48	
7078	Rest	1.07	352	19.92	255	21.35	
7079	Mapk8ip3	1.07	326	11.24	240	12.04	
7080	Braf	1.07	222	10.43	182	11.18	
7081	Cep85	1.07	126	5.41	95	5.8	
7082	Fbxo28	1.07	177	16.48	141	17.66	
7083	Use1	1.07	112	23.9	86	25.61	
7084	Zfp746	1.07	176	7.97	114	8.53	
7085	Cdh2	1.07	1494	76.49	1107	81.94	
7086	Acly	1.07	1656	83.9	1180	89.87	
7087	Adamts13	1.07	26	0.64	24	0.68	
7088	Atg101	1.07	114	16.53	84	17.7	
7089	Btd9	1.07	146	4.85	95	5.19	
7090	Cyb561a3	1.07	77	7.05	56	7.55	
7091	Igfbp2	1.07	20	3.7	14	3.96	
7092	Pygo1	1.07	87	4.11	61	4.4	
7093	Tmem62	1.07	51	4.9	37	5.25	
7094	Impact	1.07	252	16.61	194	17.77	
7095	Thrap3	1.07	885	52.06	653	55.72	
7096	Dhx8	1.07	212	10.79	158	11.54	
7097	Ube2o	1.07	339	20.39	268	21.81	
7098	LOC100151767	1.07	110	9.04	83	9.67	
7099	Gpmb	1.07	128	13.51	96	14.45	
7100	Ubxn7	1.07	62	18.4	51	19.68	
7101	RGD1565775	1.07	359	21.5	275	22.99	
7102	Cmip	1.07	424	13.2	342	14.11	
7103	Ppie	1.07	106	17.37	71	18.57	
7104	Stx16	1.07	239	10.76	182	11.5	
7105	Pfkfb2	1.07	83	1.87	60	2	
7106	Scamp5	1.07	40	2.91	30	3.11	
7107	Slc16a13	1.07	39	4.45	32	4.76	
7108	Snopc4	1.07	43	2.11	37	2.26	
7109	Usb1	1.07	44	3.96	38	4.23	
7110	Zc3h18	1.07	347	15.37	258	16.42	
7111	Zfp422	1.07	141	14.25	103	15.23	
7112	Aagab	1.07	89	11.21	53	11.97	
7113	Pat1	1.07	219	12.17	161	12.99	
7114	Ppp3ca	1.07	410	25.82	323	27.55	
7115	Smarce1	1.07	523	36.69	391	39.15	
7116	Myo6	1.07	391	11.16	283	11.91	
7117	Dennd4c	1.07	298	9.37	216	10	
7118	Syt11	1.07	182	10.12	139	10.8	
7119	Klf11	1.07	132	7.18	95	7.66	
7120	Pcbp2	1.07	377	88.92	304	94.82	
7121	Wbp2	1.07	169	48.39	125	51.59	
7122	Ankrd24	1.07	12	1.08	10	1.15	
7123	Ankrd9	1.07	16	2.57	11	2.74	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7124	Dcaf11	1.07	233	18.32	181	19.52	
7125	Dok4	1.07	35	4.91	32	5.23	
7126	Fam133b	1.07	47	5.06	49	5.4	
7127	Minpp1	1.07	181	23.61	122	25.15	
7128	Ns5atp9	1.07	12	11.22	9	11.96	
7129	Ocrl	1.07	136	5.02	101	5.34	
7130	Setdb2	1.07	54	3.48	40	3.71	
7131	Them5	1.07	24	3.11	22	3.31	
7132	Zdhhc3	1.07	342	14.72	210	15.69	
7133	Ankrd44	1.07	123	4.7	121	5.01	
7134	Areg	1.07	19	3.28	13	3.49	
7135	Fbxo10	1.07	125	4.57	82	4.87	
7136	Mphosph6	1.07	51	7.04	28	7.5	
7137	Sgk3	1.07	25	2.51	29	2.67	
7138	Rpl13a	1.07	424	810.6	291	863.76	
7139	Eif3d	1.07	570	71.96	417	76.66	
7140	Npl	1.06	136	8.48	99	9.03	
7141	Tmx2	1.06	147	21.98	106	23.39	
7142	Tsg101	1.06	341	48.37	265	51.48	
7143	Nedd4	1.06	6156	266.07	4515	283.12	
7144	Kmt2e	1.06	719	19.4	530	20.64	
7145	Brf1	1.06	147	10.16	141	10.8	
7146	Fibin	1.06	41	4.5	30	4.78	
7147	MGC95210	1.06	53	3.14	38	3.34	
7148	Bet1l	1.06	125	22.21	91	23.61	
7149	Calhm2	1.06	101	11.16	64	11.86	
7150	Lsm14b	1.06	116	15.49	89	16.47	
7151	Zfat	1.06	88	2.3	58	2.44	
7152	Mpzl1	1.06	204	16.13	151	17.15	
7153	Cry2	1.06	213	10.98	161	11.67	
7154	AC111257.1	1.06	18	4.91	15	5.22	
7155	AC128212.1	1.06	39	16.86	36	17.92	
7156	Kif21a	1.06	93	3.33	84	3.54	
7157	Sec23a	1.06	295	16.52	215	17.56	
7158	Tbc1d10a	1.06	94	11	76	11.69	
7159	Fchsd2	1.06	161	5.19	143	5.51	
7160	Arfgap3	1.06	159	11.8	116	12.54	
7161	Rnpep	1.06	161	15.49	117	16.46	
7162	Cops6	1.06	177	36.32	130	38.58	
7163	Zfp655	1.06	168	10.66	109	11.32	
7164	Zfp282	1.06	272	11.48	195	12.2	
7165	Ddx10	1.06	102	5.79	78	6.15	
7166	Ddx55	1.06	21	2.76	16	2.94	
7167	Heca	1.06	152	6.76	99	7.17	
7168	Kif13b	1.06	207	6.66	180	7.08	
7169	Slc35b3	1.06	88	3.39	77	3.6	
7170	Wasl	1.06	388	16.36	278	17.38	
7171	Usp9x	1.06	1715	30.87	1183	32.78	
7172	Zcchc17	1.06	133	12.61	115	13.39	
7173	Cdc42bpb	1.06	795	24.89	568	26.41	
7174	Ubn1	1.06	407	13.32	295	14.13	
7175	Mrpl51	1.06	126	13.27	92	14.08	
7176	Timm22	1.06	104	13.83	76	14.68	
7177	Ttc1	1.06	168	17.36	113	18.42	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7178	Zfp335	1.06	214	10.18	155	10.8	
7179	Ssb	1.06	134	22.49	96	23.84	
7180	Chchd1	1.06	39	16.67	31	17.68	
7181	Tmco1	1.06	78	16.03	64	16.99	
7182	Snx9	1.06	194	18.6	135	19.71	
7183	Ubf	1.06	482	23.52	345	24.92	
7184	Ripk1	1.06	190	8.53	123	9.04	
7185	Thoc7	1.06	200	20.14	140	21.33	
7186	Polr3d	1.06	140	16.95	99	17.95	
7187	Fbxo11	1.06	230	14.78	165	15.65	
7188	Timeless	1.06	116	5.37	83	5.69	
7189	Stxbp3	1.06	170	10.17	125	10.76	
7190	Las1l	1.06	151	9.42	114	9.96	
7191	Plekha2	1.06	414	30.22	299	31.97	
7192	Mlxip	1.06	180	7.5	119	7.93	
7193	Urb1	1.06	198	5.35	145	5.66	
7194	Anapc15	1.06	11	6.87	10	7.26	
7195	Ccdc125	1.06	19	1.2	20	1.27	
7196	Cdk13	1.06	302	11.48	230	12.13	
7197	Dnhd1	1.06	41	0.55	35	0.58	
7198	Itn1	1.06	267	10.92	178	11.54	
7199	Mrpl42	1.06	61	20.42	47	21.58	
7200	Ndufv1	1.06	192	28.85	141	30.49	
7201	Nusap1	1.06	49	1.95	37	2.07	
7202	Otud3	1.06	40	1.44	23	1.52	
7203	Pask	1.06	53	1.78	37	1.88	
7204	Per1	1.06	124	7.45	89	7.87	
7205	Rbfa	1.06	68	8.42	55	8.9	
7206	Slc38a1	1.06	75	4.81	41	5.08	
7207	Uqcrh	1.06	267	105.22	183	111.2	
7208	RGD1310852	1.06	51	2.52	43	2.66	
7209	Tmpo	1.06	1332	44.51	985	47.03	
7210	Ppp6r3	1.06	525	21.41	411	22.61	
7211	Rab11fip3	1.06	178	8.81	123	9.3	
7212	Rela	1.06	344	32.43	244	34.24	
7213	Fam76b	1.06	153	6.35	117	6.7	
7214	Copa	1.06	1352	63.47	916	66.99	
7215	Cdc20	1.06	86	11.8	61	12.45	
7216	Armcx1_2	1.06	8	8.56	9	9.03	
7217	Pdpk1	1.06	134	9.68	99	10.21	
7218	Vps33a	1.06	85	5.68	65	5.99	
7219	Hspd1	1.05	503	79.21	376	83.57	
7220	Cdc123	1.05	196	23.68	145	24.97	
7221	Baz2b	1.05	426	10.64	347	11.22	
7222	Smad1	1.05	226	8.89	176	9.36	
7223	Zfc3h1	1.05	290	8.78	215	9.25	
7224	Tmed2	1.05	967	122.67	702	129.26	
7225	Rtcb	1.05	200	33.34	139	35.13	
7226	Nxf1	1.05	545	45.05	438	47.45	
7227	Sap30bp	1.05	130	8.58	106	9.03	
7228	Ccnk	1.05	172	12.4	114	13.05	
7229	Atp2c1	1.05	237	17.64	178	18.57	
7230	Dda1	1.05	139	19.45	106	20.48	
7231	Elk4	1.05	255	12.17	155	12.81	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7232	Tmem63b	1.05	280	19.39	195	20.42	
7233	Stk11	1.05	310	21.17	230	22.29	
7234	Tanc2	1.05	828	15.79	734	16.62	
7235	Uqcrrf1	1.05	299	67.52	216	71.08	
7236	BC055324	1.05	60	2.29	50	2.41	
7237	Lcmt2	1.05	29	3.4	20	3.58	
7238	Tipin	1.05	30	8.54	24	8.99	
7239	Sdhd	1.05	176	33.29	121	35.02	
7240	Prmt7	1.05	152	13.58	113	14.29	
7241	Fbxo3	1.05	274	10.45	199	10.99	
7242	Usp45	1.05	159	4.95	128	5.2	
7243	Rcor1_2	1.05	187	15.57	136	16.37	
7244	Herc3	1.05	136	4.48	110	4.71	
7245	Btbd7	1.05	339	15.96	234	16.77	
7246	Pole4	1.05	69	6.22	46	6.54	
7247	RGD1564541	1.05	74	4.48	52	4.71	
7248	Tfcp2	1.05	166	9.24	133	9.71	
7249	Zc3h10	1.05	69	7.81	48	8.2	
7250	Rps24	1.05	174	168.78	107	177.31	
7251	Mex3c	1.05	293	24.35	208	25.58	
7252	Rdh11	1.05	125	15.3	97	16.07	
7253	Raf1	1.05	622	43.25	464	45.41	
7254	Abca9	1.05	109	4.6	75	4.83	
7255	Galc	1.05	30	3.66	23	3.84	
7256	Mob3c	1.05	23	1.29	15	1.36	
7257	Rab8b	1.05	129	6.09	97	6.39	
7258	Rnf121	1.05	61	5.21	52	5.46	
7259	Anapc1	1.05	520	13.5	378	14.17	
7260	Anp32b	1.05	507	83.61	352	87.7	
7261	Poldip3	1.05	520	29.37	352	30.81	
7262	Bclaf1	1.05	749	16.21	647	17	
7263	Emc8	1.05	147	31.18	109	32.7	
7264	Acat1	1.05	139	13.11	103	13.75	
7265	Tmem14c	1.05	91	20.71	67	21.72	
7266	Pabpc1	1.05	1991	176.71	1431	185.27	
7267	Ears2_1	1.05	43	7.75	22	8.12	
7268	Psmc2	1.05	399	59.41	288	62.27	
7269	Trabd	1.05	238	17.15	157	17.98	
7270	Paf1	1.05	214	26.63	156	27.91	
7271	Abi1	1.05	455	24.39	293	25.56	
7272	Git1	1.05	535	40.52	377	42.45	
7273	Hebp2	1.05	43	9.37	35	9.81	
7274	Tmem39a	1.05	224	20.65	150	21.64	
7275	Cyth1	1.05	109	5.46	102	5.72	
7276	Fbxo32	1.05	98	5.33	66	5.58	
7277	Hps6	1.05	67	6.28	49	6.57	
7278	Mttr14	1.05	110	6.38	88	6.68	
7279	Tstd2	1.05	112	6.88	77	7.2	
7280	Spsb4	1.05	201	10.6	121	11.09	
7281	Nf2	1.05	519	17.66	361	18.48	
7282	LOC100910122	1.05	1	6.83	0	7.15	
7283	Vps4a	1.05	198	18.68	129	19.54	
7284	Dcaf15	1.05	138	13.9	103	14.55	
7285	Kat7	1.05	356	23.87	246	24.98	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7286	Khdrbs3	1.05	73	7.42	46	7.76	
7287	Mrpl37	1.05	207	22.19	175	23.22	
7288	Slc2a1	1.05	248	22.3	181	23.33	
7289	Stim2	1.05	172	9.7	147	10.14	
7290	Rap2c	1.05	119	8.42	85	8.8	
7291	Foxj2	1.05	302	13.35	211	13.96	
7292	Dcaf6	1.05	281	14.11	206	14.75	
7293	Pxk	1.05	115	5.08	83	5.31	
7294	Ap1g2	1.04	37	3.12	26	3.26	
7295	Pnpla2	1.04	0	14.14	0	14.77	
7296	Zscan12	1.04	39	3.94	37	4.12	
7297	Ccnb1	1.04	69	9.93	48	10.37	
7298	Ash2l	1.04	253	20.46	187	21.37	
7299	Cnot4	1.04	202	7.39	154	7.71	
7300	Atad3a	1.04	200	15.02	130	15.68	
7301	Nup155	1.04	175	8.02	111	8.38	
7302	Mcmbp	1.04	209	18.27	153	19.07	
7303	Ptges	1.04	399	71.13	271	74.2	
7304	Zcchc2	1.04	151	3.92	103	4.09	
7305	Thoc3	1.04	88	10.01	68	10.44	
7306	Ppp1r8	1.04	278	21.4	178	22.31	
7307	Uba6	1.04	748	23.11	552	24.09	
7308	Cpsf2	1.04	386	15.71	271	16.37	
7309	App	1.04	1823	117.89	1316	122.9	
7310	Mdm2	1.04	286	19.56	198	20.39	
7311	Ddx41	1.04	200	28.82	153	30.04	
7312	Gbbp111	1.04	122	19.13	94	19.94	
7313	Asxl2	1.04	169	8.93	123	9.31	
7314	Psm5	1.04	250	22.29	170	23.23	
7315	Cep135	1.04	72	2.25	47	2.34	
7316	Mk1	1.04	111	11.31	81	11.78	
7317	Rybp	1.04	247	12.88	178	13.41	
7318	Ttll12	1.04	258	24.07	178	25.07	
7319	Arhgap10	1.04	137	5.71	119	5.95	
7320	Brpf1	1.04	213	9.62	139	10.02	
7321	Prdm4	1.04	158	11.12	117	11.58	
7322	Prrc2a	1.04	2546	93.4	1813	97.26	
7323	Wdr48	1.04	269	15.56	198	16.21	
7324	Cnot6	1.04	392	32	316	33.31	
7325	Mrpl48	1.04	115	12.96	95	13.49	
7326	Coa3	1.04	18	25.5	10	26.54	
7327	Klhl20	1.04	86	3.79	67	3.94	
7328	Pfkl	1.04	327	28.06	238	29.2	
7329	Atad2b	1.04	203	5.51	162	5.73	
7330	Ahsa1	1.04	183	31.53	127	32.8	
7331	Selk	1.04	92	30.33	62	31.55	
7332	Dpy19l3	1.04	219	5.99	149	6.23	
7333	Casc4	1.04	240	13.18	189	13.71	
7334	Ttc21b	1.04	142	6.88	120	7.15	
7335	Gbf1	1.04	710	21.42	498	22.27	
7336	Arhgef10	1.04	141	6.17	104	6.42	
7337	Rps27	1.04	377	348.25	271	362.07	
7338	Fhod3	1.04	933	35.07	764	36.45	
7339	Dvl1	1.04	174	13.32	118	13.85	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7340	Gcn1l1	1.04	1207	33.04	852	34.33	
7341	Stat6	1.04	198	16.37	113	17.01	
7342	Ap2a2	1.04	920	66.36	644	68.91	
7343	Psmc3	1.04	592	67.08	410	69.65	
7344	Kdelc2	1.04	759	48.21	543	50.05	
7345	AC114460.1	1.04	9	2.2	6	2.29	
7346	E2f6	1.04	235	17.18	158	17.83	
7347	Hexim2	1.04	8	1.2	8	1.25	
7348	Intu	1.04	12	0.62	13	0.64	
7349	Lama2	1.04	27	0.37	32	0.38	
7350	Nif3l1	1.04	94	6.08	67	6.31	
7351	Rsg1	1.04	9	0.46	6	0.48	
7352	Sh3yl1	1.04	23	1.26	24	1.31	
7353	SNORD77_1	1.04	0	22.65	0	23.51	
7354	Tmem120b	1.04	25	2.18	15	2.26	
7355	Ubxn1	1.04	270	62.23	198	64.59	
7356	Acbd6	1.04	116	8.28	84	8.59	
7357	Adamts9	1.04	11	0.22	11	0.23	
7358	Blzf1	1.04	65	6.07	44	6.31	
7359	Dcun1d1	1.04	152	3.28	106	3.41	
7360	Elmo3	1.04	30	2.18	25	2.26	
7361	ENSRNOG00000060	1.04	75	1.41	68	1.46	
7362	Ercc8	1.04	74	4.84	48	5.03	
7363	Hat1	1.04	141	14.91	94	15.47	
7364	Irf2bp2	1.04	111	15.25	82	15.82	
7365	Krt10	1.04	18	1.6	14	1.67	
7366	LOC688684	1.04	0	4.54	0	4.71	
7367	Lrrc16a	1.04	229	6.88	191	7.15	
7368	Mmgt1	1.04	113	6.77	80	7.03	
7369	Mtpap	1.04	86	5.21	56	5.4	
7370	Ndufc2	1.04	83	31.15	64	32.33	
7371	Nploc4	1.04	589	29.35	430	30.46	
7372	Nr1i3	1.04	43	2.09	21	2.17	
7373	Pcdhb10	1.04	7	0.38	5	0.4	
7374	Pgs1	1.04	172	13.13	117	13.63	
7375	Polq	1.04	27	0.61	20	0.64	
7376	Rbm11	1.04	8	0.94	6	0.98	
7377	Rbm12_2	1.04	0	0.56	0	0.58	
7378	RGD1562608	1.04	66	0.92	62	0.96	
7379	RGD1566239	1.04	27	8.84	29	9.17	
7380	Riok1	1.04	122	8.22	80	8.54	
7381	Rn60_X_0691.2	1.04	14	4.27	10	4.44	
7382	Rpp25l	1.04	22	6.88	16	7.15	
7383	Serping1	1.04	14	1.85	12	1.92	
7384	Slc35e4	1.04	96	5.46	62	5.67	
7385	Snx30	1.04	61	3.3	54	3.42	
7386	Tbc1d4	1.04	46	1.78	40	1.84	
7387	Thap1	1.04	34	7.03	34	7.29	
7388	Tmeff1	1.04	19	0.7	9	0.73	
7389	Trmt5	1.04	50	4.12	39	4.27	
7390	Zbtb42	1.04	22	3.07	15	3.19	
7391	Zc3h12a	1.04	34	2.45	21	2.54	
7392	Zfp566	1.04	47	3.1	24	3.21	
7393	Zfp872	1.04	12	1.25	12	1.3	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7394	Zmynd10	1.04	12	1.01	5	1.05	
7395	Zfp112	1.04	14	1.06	11	1.1	
7396	LOC100911485	1.04	151	19.93	102	20.67	
7397	Sin3b	1.04	332	70.25	237	72.87	
7398	Csnk2b	1.04	300	40.75	214	42.27	
7399	Gnb2l1_1	1.04	1563	221.84	1146	230.1	
7400	Pdgfc	1.04	297	22.11	210	22.93	
7401	Osbp	1.04	407	21.32	292	22.1	
7402	Rbbp7	1.04	956	117.97	666	122.26	
7403	Gnpat	1.04	133	11.85	100	12.28	
7404	Thoc2	1.04	287	11.23	196	11.64	
7405	Naa30	1.04	144	5.97	110	6.18	
7406	Vps37b	1.04	150	8.6	88	8.91	
7407	Parp4	1.04	226	11.04	164	11.43	
7408	CommD9	1.04	112	17.07	82	17.67	
7409	Ddhd2	1.04	108	8.44	97	8.74	
7410	Rap1a	1.04	105	8.51	66	8.82	
7411	Eif1b	1.03	74	17.84	49	18.46	
7412	Srbd1	1.03	106	4.82	88	4.98	
7413	Irs1	1.03	751	27.32	532	28.27	
7414	Nipa2	1.03	176	10.89	117	11.27	
7415	Avl9	1.03	85	6.17	55	6.38	
7416	Ets2	1.03	69	4.07	46	4.21	
7417	Snopc2	1.03	63	8.62	42	8.92	
7418	Wdr45	1.03	79	7.61	51	7.87	
7419	Champ1	1.03	172	10.65	134	11.02	
7420	Nufip2	1.03	189	20.4	111	21.1	
7421	Nfrkb	1.03	325	12.11	224	12.53	
7422	Klhl8	1.03	66	3.9	51	4.03	
7423	I7Rn6	1.03	60	8.34	48	8.63	
7424	Cnot11	1.03	111	12.78	79	13.21	
7425	AABR07051787.1	1.03	35	3.57	26	3.69	
7426	Rad23a	1.03	206	27.89	152	28.82	
7427	Bod111	1.03	444	10.87	324	11.23	
7428	Gtf3c3	1.03	162	4.81	127	4.96	
7429	Lgals8	1.03	50	12.05	34	12.45	
7430	Snmp200	1.03	1367	49.12	957	50.72	
7431	Tmem51	1.03	66	4.35	48	4.49	
7432	Meis3	1.03	43	4.81	29	4.97	
7433	Ski	1.03	326	25.6	212	26.42	
7434	Bod1	1.03	95	11.78	63	12.16	
7435	Cyth2	1.03	236	31.58	155	32.58	
7436	Pcdhgb8	1.03	32	3.19	22	3.29	
7437	Kpna5	1.03	108	4.06	72	4.19	
7438	Tinf2	1.03	34	4.67	26	4.81	
7439	Lmf2	1.03	235	20.84	162	21.48	
7440	Mdc1	1.03	167	7.55	121	7.78	
7441	Ube2g1	1.03	210	18.06	167	18.62	
7442	Plekhg3	1.03	186	7.84	116	8.08	
7443	Aldh7a1	1.03	336	39.34	244	40.53	
7444	Pacs2	1.03	300	16.78	216	17.28	
7445	H2afz	1.03	64	149.24	39	153.69	
7446	Ubr7	1.03	182	10.33	122	10.63	
7447	AC094212.1	1.03	0	5.83	0	6.01	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7448	AC136013.2	1.03	32	7.51	28	7.73	
7449	Gpatch1	1.03	58	1.94	34	2	
7450	Lin9	1.03	19	3.57	20	3.67	
7451	LOC288913	1.03	105	36.24	69	37.3	
7452	Lrrc71	1.03	48	2.77	33	2.85	
7453	Racgap1	1.03	76	6.1	55	6.28	
7454	Tradd	1.03	21	4.49	17	4.62	
7455	LOC100911248	1.03	86	16.13	70	16.6	
7456	AC115322.4	1.03	122	284.62	118	292.89	
7457	Shprh	1.03	266	7.44	198	7.66	
7458	Zfp462	1.03	354	8.64	244	8.89	
7459	Timm50	1.03	119	24.19	87	24.88	
7460	Rpl5	1.03	888	339.14	630	348.86	
7461	Slc39a6	1.03	324	21.9	224	22.52	
7462	Lsm8	1.03	76	20.32	61	20.9	
7463	Mat2a	1.03	582	48.4	409	49.78	
7464	Zfp771	1.03	111	16.98	90	17.46	
7465	Kctd18	1.03	155	5.19	121	5.34	
7466	Tsen15	1.03	53	9.02	32	9.27	
7467	Dnaja1	1.03	542	77.69	345	79.84	
7468	Ttpal	1.03	168	7.53	110	7.74	
7469	Inpp5b	1.03	64	7.59	57	7.79	
7470	Cops7a	1.03	293	29.06	193	29.85	
7471	Sumo1	1.03	233	42.64	173	43.8	
7472	Gltf	1.03	101	13.9	66	14.27	
7473	Pikfyve	1.03	279	6.27	194	6.44	
7474	Gtf2h1	1.03	189	11.49	129	11.79	
7475	Tnk2	1.03	381	15.65	256	16.06	
7476	Ttc3	1.03	959	25.98	625	26.66	
7477	Btbd6	1.03	9	1.99	10	2.04	
7478	Casc5	1.03	28	1.05	25	1.07	
7479	Cc2d1a	1.03	173	11.22	120	11.5	
7480	Mrpl53_2	1.03	10	13.8	4	14.15	
7481	Sdccag8	1.03	377	3.07	182	3.15	
7482	Socs4	1.03	75	8.45	56	8.67	
7483	AABR07069227.1	1.03	18	2.87	13	2.95	
7484	Efhd2	1.03	181	20.1	125	20.62	
7485	Fam53c	1.03	183	13.62	112	13.97	
7486	Gen1	1.03	23	0.99	13	1.01	
7487	Map3k2	1.03	111	5.77	85	5.92	
7488	Nob1	1.03	266	33.24	181	34.1	
7489	Pdzk1	1.03	122	2.14	101	2.19	
7490	Ankfy1	1.03	673	20.4	493	20.92	
7491	Zc3h14	1.03	330	16.91	231	17.34	
7492	Ormdl3	1.03	250	106	172	108.69	
7493	Pafah1b1	1.03	807	40.15	618	41.16	
7494	Slc37a3	1.03	294	21.92	208	22.47	
7495	Ubxn4	1.02	532	32.3	380	33.1	
7496	Uqcr10_1	1.02	171	105.14	121	107.74	
7497	Atxn7l3	1.02	83	14.96	58	15.33	
7498	Atf2	1.02	193	18.69	144	19.15	
7499	Spcs2	1.02	308	23.43	202	24.01	
7500	Cep104	1.02	215	10.18	156	10.43	
7501	Mrps23	1.02	69	11.75	58	12.03	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7502	Tspyl2	1.02	131	10.73	88	11	
7503	Ube2z	1.02	398	32.19	273	32.96	
7504	Tnfrsf21	1.02	49	2.52	35	2.58	
7505	Slc17a5	1.02	65	3.73	43	3.82	
7506	Snw1	1.02	129	15.59	102	15.96	
7507	Ppp4r1	1.02	554	32.51	400	33.26	
7508	Stxbp5	1.02	248	4.46	184	4.56	
7509	Wdr5	1.02	204	20.92	149	21.4	
7510	Akna	1.02	34	1.26	28	1.29	
7511	Opa3	1.02	119	9.73	101	9.95	
7512	Abcg3l1	1.02	121	4.67	74	4.77	
7513	Hr	1.02	29	1.11	20	1.14	
7514	Kdsr	1.02	96	6.26	66	6.4	
7515	Ndc1	1.02	140	5.59	92	5.71	
7516	Rnaseh2c	1.02	29	9.23	20	9.44	
7517	Dctn2	1.02	621	70.76	443	72.34	
7518	Grn	1.02	961	101.48	671	103.74	
7519	Bmpr1a	1.02	292	22.95	217	23.46	
7520	Birc6	1.02	816	15.54	584	15.87	
7521	Mrpl55	1.02	48	9.76	35	9.96	
7522	Nuf2	1.02	47	4.88	32	4.98	
7523	RGD1563888	1.02	78	5.07	43	5.18	
7524	Tti2	1.02	47	4.8	34	4.9	
7525	Fbxl19	1.02	109	7	67	7.14	
7526	Fkbp8	1.02	420	59.31	299	60.53	
7527	Spcs3	1.02	317	22.53	219	22.99	
7528	LOC100910717	1.02	744	24.7	515	25.2	
7529	Rcl1	1.02	61	4.7	39	4.79	
7530	Hsph1	1.02	373	24.51	260	25.01	
7531	Psemb4	1.02	457	126.51	316	129.03	
7532	Gskip	1.02	96	6.61	70	6.74	
7533	Ndufa2	1.02	59	25.36	40	25.86	
7534	Rab5b	1.02	505	35.73	358	36.43	
7535	RGD1307752	1.02	217	46.7	147	47.61	
7536	Sec31a	1.02	941	47.12	651	48.03	
7537	Syng2	1.02	141	35.29	95	35.98	
7538	Vcpip1	1.02	230	12.6	171	12.84	
7539	Nipbl	1.02	538	14.6	409	14.88	
7540	Gzf1	1.02	123	6.23	86	6.35	
7541	Polr2d	1.02	110	23.91	85	24.35	
7542	Tor1b	1.02	157	9.12	94	9.29	
7543	Yif1a	1.02	111	18.53	89	18.87	
7544	Slc33a1	1.02	159	9.38	108	9.55	
7545	Pdia3	1.02	1185	273.01	776	277.95	
7546	Wdr26	1.02	757	28.28	528	28.78	
7547	AABR07035074.1	1.02	12	1.29	10	1.32	
7548	AABR07040622.1	1.02	7	2.83	5	2.87	
7549	AABR07063082.1	1.02	7	1.59	6	1.62	
7550	Arid4b	1.02	0	0.68	0	0.69	
7551	Bbs4	1.02	108	6.95	93	7.07	
7552	Clip3_2	1.02	2	0.7	4	0.71	
7553	Dfna5	1.02	39	1.61	16	1.64	
7554	Efcab7	1.02	19	1.16	27	1.18	
7555	Gabra4	1.02	16	0.56	9	0.57	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7556	Gxylt1	1.02	343	10.6	231	10.78	
7557	Pde10a	1.02	218	8.28	205	8.42	
7558	Pkd11l1	1.02	17	0.32	11	0.32	
7559	Pop1	1.02	47	2.84	35	2.89	
7560	Qsox1	1.02	198	12.95	143	13.17	
7561	Sf3a3	1.02	202	16.46	150	16.75	
7562	Ska1	1.02	25	1.38	14	1.41	
7563	Skap2	1.02	34	3.06	23	3.11	
7564	Srxn1	1.02	63	3.4	50	3.46	
7565	Tatdn1	1.02	64	2.83	45	2.87	
7566	Tbl3	1.02	161	15.51	114	15.78	
7567	Tfb1m	1.02	53	3.14	26	3.2	
7568	Ubl4a	1.02	120	12.82	85	13.04	
7569	Ubt1	1.02	34	2.69	26	2.73	
7570	Ust	1.02	39	1.22	39	1.24	
7571	Uxt	1.02	61	23.73	43	24.14	
7572	Zfp191	1.02	128	20.38	88	20.73	
7573	Tnfrsf1a	1.02	270	30.68	188	31.19	
7574	Arhgef7	1.02	281	11.65	211	11.84	
7575	Fam60a_1	1.02	97	11.32	68	11.5	
7576	LOC100360260_1	1.02	173	49.8	125	50.6	
7577	Ndr1	1.02	231	27.12	160	27.56	
7578	Nsmaf	1.02	168	9.03	133	9.17	
7579	RGD1311899	1.02	122	19.91	87	20.23	
7580	Micu1	1.02	241	19.86	180	20.17	
7581	Itpkb	1.02	134	5.89	97	5.98	
7582	Anks6	1.02	125	3.3	79	3.35	
7583	Dclre1b	1.02	98	5.19	72	5.27	
7584	Supt16h	1.02	373	21.1	258	21.42	
7585	Sec16a	1.02	868	22.42	601	22.77	
7586	Dvl3	1.02	507	25.77	352	26.17	
7587	Cbx5	1.02	81	12.37	63	12.55	
7588	Kctd20	1.02	93	14.47	68	14.69	
7589	Mapk1	1.01	461	42.69	294	43.32	
7590	Narf	1.01	126	10.35	86	10.51	
7591	Xrn2	1.01	418	24.76	281	25.12	
7592	Rfc1	1.01	257	11.71	175	11.88	
7593	Arl6ip6	1.01	89	7.71	68	7.83	
7594	Dtnbp1	1.01	140	12.47	123	12.65	
7595	LOC100911959	1.01	800	57.69	570	58.52	
7596	Zfp653	1.01	75	6.13	59	6.22	
7597	Smg5	1.01	397	20.44	286	20.73	
7598	Cnot1	1.01	1102	32.4	776	32.86	
7599	Smim14	1.01	206	33.08	132	33.54	
7600	Tfeb	1.01	47	4.54	31	4.61	
7601	Usp19	1.01	544	26.75	373	27.11	
7602	LOC100909609	1.01	439	13.13	370	13.31	
7603	Zc3h3	1.01	182	8.84	137	8.96	
7604	Flii	1.01	591	36.02	417	36.5	
7605	Abr	1.01	141	8.42	94	8.53	
7606	Snap29	1.01	215	12.16	139	12.31	
7607	Zmynd11	1.01	443	21.2	314	21.46	
7608	Gabbr1	1.01	314	12.32	210	12.47	
7609	Asb6	1.01	96	10.25	68	10.38	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7610	Rab22a	1.01	320	8.29	186	8.39	
7611	Cttn_2	1.01	0	18.76	0	18.99	
7612	Pxn	1.01	192	11.23	144	11.36	
7613	Rpl7	1.01	1605	83.88	1049	84.84	
7614	Usp36	1.01	314	8.95	198	9.05	
7615	Vcp	1.01	1894	146.11	1312	147.71	
7616	Cenph	1.01	41	4.56	24	4.61	
7617	Exosc5	1.01	25	5.59	19	5.65	
7618	Frs3	1.01	30	2.84	24	2.87	
7619	Mpc2	1.01	75	29.85	53	30.17	
7620	Ptgr2	1.01	157	9.53	119	9.64	
7621	Rhbdd1	1.01	171	8.76	111	8.86	
7622	Zfp518a	1.01	48	1.69	39	1.71	
7623	Dnajc10	1.01	495	28.46	339	28.77	
7624	Kdm4c	1.01	151	6.34	116	6.4	
7625	Prkaa1	1.01	231	11.19	162	11.31	
7626	Gabpb1	1.01	218	16.37	183	16.54	
7627	Ing5	1.01	191	8.7	129	8.79	
7628	Mlec	1.01	1474	25.54	1127	25.79	
7629	Fam216a	1.01	78	11.87	52	11.99	
7630	Rpl7l1	1.01	125	39.68	82	40.07	
7631	Dhx36	1.01	268	9.37	189	9.46	
7632	Zfp609	1.01	496	11.2	334	11.31	
7633	LOC100911615	1.01	0	16	0	16.14	
7634	Npepl1	1.01	252	28.6	176	28.86	
7635	Rnf139	1.01	82	6.59	58	6.65	
7636	Sys1	1.01	38	9.06	25	9.14	
7637	Agk	1.01	58	4.89	37	4.93	
7638	Senp3	1.01	261	25.06	186	25.28	
7639	Cherp	1.01	402	23.55	273	23.76	
7640	Lamp1	1.01	1197	145.29	819	146.57	
7641	Dnm2	1.01	481	24.2	338	24.42	
7642	Snx5	1.01	202	14.39	121	14.52	
7643	Tufm	1.01	251	32.01	170	32.29	
7644	Ncor1	1.01	1050	26.88	743	27.11	
7645	Dnajc13	1.01	490	14.14	365	14.27	
7646	Cirh1a	1.01	238	24.13	165	24.34	
7647	Eef1g	1.01	1985	393.49	1304	396.85	
7648	Pum1	1.01	755	27.78	552	28.01	
7649	Nucb1	1.01	221	55.15	119	55.61	
7650	Aqr	1.01	422	19.76	293	19.92	
7651	Slc25a3	1.01	698	106.14	474	106.98	
7652	Taf1	1.01	176	7.86	121	7.92	
7653	Ankrd17	1.01	843	17.82	609	17.96	
7654	Rfx1	1.01	187	8.21	125	8.28	
7655	Bet1	1.01	93	12.33	60	12.42	
7656	Mtrr	1.01	95	6.35	72	6.4	
7657	Alg10	1.01	166	17.11	112	17.23	
7658	Foxl2	1.01	162	36.1	112	36.37	
7659	Wdr18	1.01	57	15.83	44	15.95	
7660	Zfp467	1.01	110	5.92	77	5.96	
7661	Atg4b	1.01	142	17.27	120	17.4	
7662	Sf3b4	1.01	364	55.59	247	55.98	
7663	Atxn1l	1.01	127	13.23	87	13.33	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7664	Mrps2	1.01	157	8.46	100	8.51	
7665	Slc6a6	1.01	171	12.8	129	12.89	
7666	Ipo8	1.01	158	12.04	108	12.12	
7667	Sf3a1	1.01	399	19.06	282	19.19	
7668	Pum2	1.01	985	34.48	715	34.71	
7669	Hint1-ps1	1.01	190	92.06	125	92.67	
7670	Vdac1	1.01	428	87.35	302	87.9	
7671	Adar	1.01	187	8.98	137	9.03	
7672	Asb3	1.01	76	4.96	50	4.99	
7673	Coq5	1.01	70	6.23	52	6.27	
7674	Dhx32	1.01	85	6.08	63	6.12	
7675	Gpatch2l	1.01	90	5.4	79	5.43	
7676	Gse1	1.01	70	2.92	67	2.94	
7677	Hspa2	1.01	41	3.89	30	3.91	
7678	Kank3	1.01	16	1.2	12	1.21	
7679	Mfsd2a	1.01	21	1.52	15	1.53	
7680	Raver2	1.01	90	6.61	67	6.64	
7681	Setd6	1.01	49	5.77	29	5.81	
7682	Thoc1_1	1.01	96	17.28	66	17.38	
7683	Tnfsf12	1.01	21	2.11	9	2.12	
7684	Ttc37	1.01	160	7.33	115	7.38	
7685	Uap1	1.01	125	12.96	90	13.04	
7686	RGD1311703	1.01	283	41.81	197	42.06	
7687	Sdhaf4	1.01	25	10.28	16	10.34	
7688	Cdc16	1.01	414	32.18	292	32.36	
7689	St3gal1	1.01	2024	84.02	1422	84.49	
7690	LOC100911993	1.01	185	6.14	157	6.17	
7691	Ranbp10	1	250	8.26	178	8.3	
7692	Trmt2a	1	95	8.42	64	8.46	
7693	Sdc3	1	590	29.49	401	29.62	
7694	Rps15	1	578	314.17	417	315.5	
7695	Adam10	1	449	27.91	306	28.03	
7696	LOC100910121	1	330	21.52	240	21.61	
7697	*March5	1	187	22.27	119	22.35	
7698	Abcb7	1	53	4.4	43	4.41	
7699	Dgkz	1	152	8.49	96	8.52	
7700	Dars	1	274	17.44	157	17.5	
7701	Ptprm	1	617	14.43	418	14.47	
7702	Nampt	1	128	10.48	88	10.51	
7703	Kctd17	1	135	10.83	118	10.86	
7704	Pdzd11	1	72	8.58	49	8.6	
7705	Slc12a4	1	866	47.71	571	47.84	
7706	Nub1	1	214	25.34	152	25.4	
7707	Myl12b	1	808	105.77	352	106.01	
7708	Unk	1	143	8.07	91	8.08	
7709	Commd4	1	83	14.48	72	14.51	
7710	Gabarapl2	1	158	31.77	118	31.84	
7711	LOC103689943	1	1	9.38	0	9.4	
7712	Utp3	1	87	13.11	59	13.14	
7713	Map2k2	1	443	56.75	313	56.86	
7714	Nr2c1	1	203	6.45	161	6.47	
7715	Nudcd2	1	74	11.75	52	11.77	
7716	Sav1	1	160	16.24	100	16.26	
7717	Golt1b	1	182	14.19	125	14.21	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7718	AABR07048064.1	1	16	5.85	11	5.85	
7719	Aldh16a1	1	101	8.44	73	8.45	
7720	Nudt9	1	58	8.05	39	8.06	
7721	Zmym5	1	129	11.88	88	11.9	
7722	Cks1b	1	132	20.96	94	20.98	
7723	Mblac2	1	75	2.75	58	2.75	
7724	Tmbim6	1	1057	115.67	696	115.75	
7725	Mdfic	1	357	20	251	20.01	
7726	Fam175b	1	126	9.57	93	9.58	
7727	Os9	1	403	35.46	277	35.48	
7728	Cdk9	1	302	41.08	197	41.1	
7729	Eif2b1	1	88	10.85	65	10.85	
7730	Papss1	1	294	24.19	189	24.19	
7731	Prrc2b	1	1119	37.38	766	37.38	
7732	Trim3	-1	142	8.03	80	8.03	
7733	Atp6v1b2	-1	306	27.07	212	27.07	
7734	Srsf9	-1	261	49.56	202	49.55	
7735	Elavl1	-1	629	47.81	441	47.8	
7736	Stt3b	-1	1041	44.39	761	44.39	
7737	Klhl21	-1	136	8.13	88	8.13	
7738	Diaph1	-1	576	21.72	413	21.71	
7739	Anapc4	-1	265	15.45	187	15.44	
7740	Atp6v1g1	-1	270	58.7	186	58.66	
7741	Rtn3	-1	786	35.61	521	35.58	
7742	AABR07057519.1	-1	16	1.27	12	1.27	
7743	Mospd1	-1	22	6.21	19	6.2	
7744	Rnf138	-1	71	6.33	49	6.32	
7745	AABR07072602.1	-1	20	5.06	19	5.05	
7746	Cmtm4	-1	49	5.51	36	5.51	
7747	Fance	-1	45	4.3	44	4.29	
7748	Lgalsl	-1	64	4.55	43	4.54	
7749	LOC100362298	-1	0	8.69	0	8.68	
7750	Map3k9	-1	23	1.08	13	1.07	
7751	Mrpl21	-1	38	8.47	28	8.46	
7752	Mthfd2l	-1	41	1.35	60	1.35	
7753	Nle1	-1	53	6.83	40	6.83	
7754	Pdpn	-1	101	12.92	69	12.9	
7755	Pptc7	-1	230	8.5	189	8.49	
7756	Susd6	-1	278	15.18	198	15.16	
7757	Tead4	-1	116	5.31	94	5.31	
7758	Tmem121	-1	16	4.17	11	4.16	
7759	Timm8b	-1	7	16.44	8	16.42	
7760	Fam179b	-1	290	7.98	203	7.97	
7761	Lrba	-1	282	5.28	215	5.27	
7762	LOC100912604	-1	0	30.62	0	30.58	
7763	Slc35b1	-1	296	43.29	202	43.22	
7764	Ldha	-1	911	266.14	700	265.67	
7765	Ppm1d	-1	114	7.11	85	7.09	
7766	Tpt1	-1	1123	558.34	845	557.03	
7767	Ppp2r1b	-1	272	15.36	187	15.32	
7768	Aco2	-1	1564	59.89	1100	59.74	
7769	Scd1	-1	868	51.84	588	51.7	
7770	Ddx23	-1	484	36.54	332	36.44	
7771	Dcun1d4	-1	116	5.02	89	5.01	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7772	Ap3d1	-1	760	37.02	517	36.91	
7773	Cox4i1	-1	632	196.33	435	195.65	
7774	Ankrd32	-1	56	2.33	44	2.32	
7775	Dlg3	-1	78	2.88	67	2.87	
7776	Nlrp1a	-1	41	1.23	28	1.23	
7777	Preb	-1	41	13.14	33	13.09	
7778	Sap30l	-1	43	15.88	36	15.83	
7779	Zfp593	-1	35	4.34	24	4.32	
7780	Capn7	-1	188	11.2	122	11.16	
7781	Vopp1	-1	95	7.69	65	7.66	
7782	Sf3b2	-1	740	56.5	512	56.26	
7783	Samd4b	-1	474	25.97	323	25.86	
7784	Psmc4	-1	419	72.62	286	72.31	
7785	Prep	-1	427	31.19	304	31.05	
7786	Tgs1	-1	173	7.35	116	7.32	
7787	Hsbp1	-1.01	377	70.56	260	70.2	
7788	Gtpbp4	-1.01	88	10.82	66	10.76	
7789	Ddx5	-1.01	2045	175.88	1508	174.95	
7790	Pcna	-1.01	292	60.57	192	60.24	
7791	AABR07053879.1	-1.01	3	4.84	2	4.81	
7792	Dcn	-1.01	96	12.71	67	12.64	
7793	lqcb1	-1.01	62	3.33	38	3.31	
7794	Polr1e	-1.01	24	2.71	19	2.69	
7795	Ankrd13b	-1.01	61	4.5	34	4.48	
7796	Ccdc102a	-1.01	123	8.24	79	8.19	
7797	Gfm2	-1.01	81	3.97	61	3.95	
7798	Mapk3	-1.01	802	107.17	563	106.53	
7799	Dhcr24	-1.01	788	48.35	536	48.06	
7800	Tnpo3	-1.01	456	25.41	323	25.25	
7801	Polg	-1.01	224	13.05	149	12.97	
7802	Yipf5	-1.01	249	17.59	164	17.47	
7803	Mageh1	-1.01	98	19.55	67	19.42	
7804	Polr1b	-1.01	74	3.97	45	3.95	
7805	Maz	-1.01	178	28.03	121	27.83	
7806	Rslcan18	-1.01	42	4.28	28	4.25	
7807	Slc38a9	-1.01	83	2.28	70	2.26	
7808	Snx25	-1.01	52	3.67	34	3.64	
7809	Serp1	-1.01	457	46.94	310	46.56	
7810	Pex13	-1.01	117	10.14	81	10.06	
7811	Ssr1	-1.01	644	43.86	435	43.51	
7812	Ak3	-1.01	285	39.44	222	39.12	
7813	Dpm2	-1.01	68	19.28	46	19.13	
7814	Farp2	-1.01	273	3.64	147	3.61	
7815	Icmt	-1.01	76	8.98	45	8.9	
7816	Scamp4	-1.01	327	36.4	209	36.1	
7817	Smim20	-1.01	80	17.64	61	17.49	
7818	Srd5a3	-1.01	140	19.75	110	19.58	
7819	Athl1	-1.01	64	6.77	50	6.72	
7820	Clasp1	-1.01	441	17.49	358	17.34	
7821	Ptpn23	-1.01	372	17.19	255	17.05	
7822	Kdm2b	-1.01	220	9.82	170	9.74	
7823	Nt5dc2	-1.01	224	30.09	149	29.82	
7824	Tnpo2	-1.01	824	38.62	538	38.26	
7825	Ankrd49	-1.01	48	5.13	33	5.08	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7826	Mipol1	-1.01	67	3.27	77	3.24	
7827	Nup85	-1.01	102	10.01	65	9.92	
7828	Pithd1	-1.01	95	11.61	62	11.51	
7829	Mrpl13	-1.01	111	26.13	82	25.89	
7830	Pcyt2	-1.01	251	26.26	169	26.01	
7831	Tceb1	-1.01	80	11.93	59	11.82	
7832	Tmem63a	-1.01	28	1.49	16	1.48	
7833	Sbno2	-1.01	290	8.55	197	8.47	
7834	Phb2	-1.01	331	58.3	224	57.74	
7835	Imp4	-1.01	140	19.29	101	19.1	
7836	Rad54l2	-1.01	45	5.15	45	5.1	
7837	Tacc3	-1.01	78	9.18	56	9.09	
7838	Qrich1	-1.01	516	27.57	364	27.29	
7839	Atp6v1d	-1.01	183	31.39	123	31.06	
7840	Pcca	-1.01	88	5.2	70	5.14	
7841	Mea1	-1.01	348	78.2	243	77.36	
7842	Dut	-1.01	118	19.21	112	19	
7843	Mlf2	-1.01	500	70.36	344	69.57	
7844	Rab8a	-1.01	196	24.16	131	23.89	
7845	Srp72	-1.01	280	19.23	213	19.01	
7846	LOC100360087	-1.01	161	254.93	120	252.01	
7847	Fam168b	-1.01	814	46.14	551	45.6	
7848	Gspt2	-1.01	28	1.73	18	1.71	
7849	Hspb6	-1.01	28	4.76	20	4.7	
7850	Klhl23	-1.01	75	3.52	54	3.48	
7851	Tex30	-1.01	49	3.2	30	3.16	
7852	Txnrd2	-1.01	162	11.32	111	11.19	
7853	LOC100911093	-1.01	48	8.4	45	8.3	
7854	Actr1b	-1.01	471	29.85	319	29.48	
7855	Tjap1	-1.01	205	12.42	145	12.27	
7856	Pdcd6	-1.01	215	24.9	141	24.6	
7857	Shc1	-1.01	331	21.13	217	20.87	
7858	Tceb3	-1.01	362	24.05	245	23.75	
7859	Lamtor5	-1.01	87	22.11	56	21.83	
7860	Lig3	-1.01	292	11.79	187	11.64	
7861	Tlk2	-1.01	264	14.13	201	13.95	
7862	Adgrl2	-1.01	594	19.81	384	19.55	
7863	Atp9b	-1.01	411	11.44	268	11.29	
7864	Rfc2	-1.01	63	8.65	45	8.54	
7865	Brwd1	-1.01	410	5.66	309	5.58	
7866	Exosc2	-1.01	64	7.03	44	6.94	
7867	Tmem245	-1.01	322	22.42	239	22.13	
7868	Fam181b	-1.01	103	22.42	83	22.13	
7869	Son	-1.01	2802	69.6	1887	68.66	
7870	Ubr5	-1.01	990	30.95	664	30.53	
7871	Rbm6	-1.01	325	12.92	271	12.75	
7872	Dld	-1.01	242	21.1	171	20.81	
7873	Mta2	-1.01	542	43.86	364	43.26	
7874	Csnk2a1	-1.01	474	53.8	344	53.05	
7875	Ubqln4	-1.01	447	29.25	296	28.84	
7876	Atg4d	-1.01	100	10.79	70	10.64	
7877	Lats1	-1.01	532	15.75	351	15.53	
7878	Lcmt1	-1.01	97	10.32	71	10.18	
7879	Mmp24	-1.01	32	1.72	19	1.69	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7880	Ythdc2	-1.01	47	3.65	43	3.59	
7881	AC097890.1	-1.01	14	3.6	8	3.55	
7882	Atg7	-1.01	94	4.61	71	4.54	
7883	Bmf	-1.01	36	3.35	23	3.3	
7884	Ckap5	-1.01	543	21.39	377	21.08	
7885	Tsn	-1.01	117	16.96	68	16.72	
7886	LOC100911576	-1.01	4	12.44	5	12.26	
7887	Tcf25	-1.02	930	60.53	668	59.63	
7888	Mdm1	-1.02	76	4.11	57	4.05	
7889	Unc45a	-1.02	323	22.26	220	21.93	
7890	Ppp2r2a	-1.02	507	37.57	373	37.01	
7891	Rbm15	-1.02	167	9.17	128	9.04	
7892	Ccdc47	-1.02	490	27.99	323	27.56	
7893	Gpr107	-1.02	310	15.45	204	15.22	
7894	Cln5	-1.02	31	3.83	21	3.77	
7895	Palb2	-1.02	43	2.09	37	2.06	
7896	Smim12	-1.02	32	7.87	21	7.75	
7897	Vkorc11l_1	-1.02	0	14.55	0	14.32	
7898	Zufsp	-1.02	54	3.83	56	3.77	
7899	Cyfp1	-1.02	810	39.36	537	38.73	
7900	Cenpb	-1.02	255	31.41	174	30.9	
7901	R3hdm2	-1.02	473	20.67	326	20.33	
7902	P4ha2	-1.02	275	23.15	202	22.78	
7903	Mob1b	-1.02	152	11.98	110	11.78	
7904	Slc39a7	-1.02	752	79.58	510	78.28	
7905	Anp32a	-1.02	478	94.87	365	93.3	
7906	Traf7	-1.02	336	28.87	220	28.38	
7907	AABR07037528.1	-1.02	34	6.9	23	6.78	
7908	Cdadcl1	-1.02	55	6.56	38	6.45	
7909	Ddx50	-1.02	213	13.44	153	13.21	
7910	Frrs1	-1.02	39	4.76	25	4.68	
7911	Rnf19a	-1.02	430	22.44	299	22.05	
7912	Nfat5	-1.02	603	10.16	415	9.98	
7913	Msl3	-1.02	156	15.44	117	15.17	
7914	Parp3	-1.02	113	12.51	70	12.29	
7915	Tomm22	-1.02	210	50.8	142	49.92	
7916	Mcm6	-1.02	291	24.26	200	23.83	
7917	Trip12	-1.02	1600	49.58	1121	48.71	
7918	Ddx19a	-1.02	604	11.48	427	11.28	
7919	Zfand3	-1.02	605	38.29	442	37.6	
7920	Arhgef11	-1.02	611	25.01	417	24.56	
7921	Aven	-1.02	51	8.71	37	8.55	
7922	Hes1	-1.02	38	6.38	25	6.27	
7923	Serhl2	-1.02	8	3.7	4	3.63	
7924	Oat	-1.02	170	17.52	107	17.19	
7925	Sik3	-1.02	789	19.2	562	18.84	
7926	Vti1b	-1.02	54	8.6	42	8.43	
7927	Tfrc	-1.02	616	31.54	416	30.94	
7928	Upf1	-1.02	493	28.73	339	28.17	
7929	Wbp11_1	-1.02	4	19.82	2	19.43	
7930	Lsm12	-1.02	368	38.03	251	37.28	
7931	E2f4	-1.02	156	15.91	104	15.59	
7932	Capns1	-1.02	0	43.29	0	42.42	
7933	Hacl1	-1.02	62	1.84	43	1.8	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7934	Rpa3	-1.02	48	17.36	33	17.02	
7935	Map3k11	-1.02	198	12.64	132	12.38	
7936	Fnip1	-1.02	94	4.31	65	4.22	
7937	Tubgcp3	-1.02	216	12.52	142	12.26	
7938	Nde1	-1.02	107	10.65	79	10.43	
7939	Cand1	-1.02	642	35.19	434	34.45	
7940	Slc25a16	-1.02	142	3.77	96	3.69	
7941	Ttc26	-1.02	75	3.75	65	3.67	
7942	Khynyn	-1.02	65	6.02	44	5.89	
7943	Ppp1ca	-1.02	901	148.4	606	145.22	
7944	Eif3j	-1.02	298	34.53	206	33.79	
7945	Prkrip1	-1.02	145	6.17	94	6.04	
7946	Dtymk	-1.02	204	27.39	163	26.79	
7947	Ano10	-1.02	136	10.82	91	10.58	
7948	Cep131	-1.02	63	3.51	46	3.43	
7949	Cmtm3	-1.02	165	24.16	113	23.63	
7950	Prdx6	-1.02	240	66.2	147	64.73	
7951	Sugp1	-1.02	174	12.84	121	12.56	
7952	Magi3	-1.02	180	4.54	115	4.44	
7953	Kdelr2	-1.02	707	90.15	487	88.14	
7954	Noc2l	-1.02	251	22.48	164	21.98	
7955	Nek7	-1.02	78	12.45	49	12.17	
7956	Arl8b	-1.02	307	25.39	204	24.82	
7957	Abl1	-1.02	282	27.19	175	26.58	
7958	Trim26	-1.02	193	8.41	141	8.22	
7959	Celf1	-1.02	571	49.13	353	48.02	
7960	Eil2	-1.02	142	6.27	90	6.12	
7961	Fam13b	-1.02	335	17.24	210	16.84	
7962	Rcor1_1	-1.02	115	26.25	70	25.65	
7963	Tro	-1.02	167	8.16	106	7.98	
7964	Herc1	-1.02	463	6.74	310	6.59	
7965	Epg5	-1.02	320	7.45	211	7.28	
7966	Nxt1	-1.02	61	17.84	41	17.42	
7967	Numb1	-1.02	100	5.02	77	4.91	
7968	Rab14	-1.02	248	34.51	150	33.7	
7969	Agap3	-1.02	312	9.31	220	9.09	
7970	Gatad1	-1.02	82	20.06	53	19.58	
7971	Msantd3	-1.02	96	4.69	60	4.58	
7972	Szrd1	-1.02	582	37.51	375	36.6	
7973	Ube2d2	-1.03	317	47.51	197	46.34	
7974	Fam214b	-1.03	83	7.98	56	7.78	
7975	Dnajc3	-1.03	246	31.53	165	30.75	
7976	Xpc	-1.03	217	10.63	165	10.36	
7977	Gli3	-1.03	225	7.67	158	7.48	
7978	Park7	-1.03	253	26.55	181	25.89	
7979	Brap	-1.03	112	11.18	70	10.9	
7980	Cldnd1	-1.03	333	39.25	218	38.26	
7981	Lonp1	-1.03	358	26.65	227	25.98	
7982	Med4	-1.03	96	14.89	64	14.52	
7983	Scaf4	-1.03	265	8.27	194	8.06	
7984	Tcerg1	-1.03	434	19.18	318	18.69	
7985	Unc5b	-1.03	944	38.64	615	37.64	
7986	Ube4b	-1.03	514	19.75	356	19.24	
7987	Csnk1d	-1.03	733	34.76	460	33.86	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
7988	Nom1	-1.03	121	9.64	91	9.39	
7989	Pknx1	-1.03	116	5.49	70	5.34	
7990	Rabac1	-1.03	111	27.56	89	26.84	
7991	Zcchc14	-1.03	230	14.17	156	13.79	
7992	Gemin5	-1.03	224	9.96	163	9.69	
7993	Gtf2a2	-1.03	146	32.78	100	31.91	
7994	Plekha8	-1.03	114	3.86	74	3.75	
7995	Psm11	-1.03	503	32.93	347	32.05	
7996	Cul3	-1.03	332	17.62	220	17.12	
7997	Apba3	-1.03	144	18.01	101	17.51	
7998	Psm13	-1.03	388	54.66	258	53.11	
7999	Srrm1	-1.03	856	43.68	576	42.44	
8000	Zfp507	-1.03	283	10.15	205	9.86	
8001	Ubc	-1.03	5740	561.09	3810	544.6	
8002	lds	-1.03	306	43.18	198	41.91	
8003	Wdfy3	-1.03	1050	21.53	703	20.9	
8004	Tmem214	-1.03	313	20.25	211	19.65	
8005	Tdg	-1.03	360	23.22	259	22.53	
8006	Lrp6	-1.03	416	15.04	294	14.59	
8007	7SK_394	-1.03	0	2.56	0	2.48	
8008	AABR07046778.1	-1.03	1	2.8	0	2.71	
8009	AC094902.1	-1.03	0	0.36	0	0.35	
8010	AC114343.1	-1.03	0	0.39	0	0.38	
8011	Ahsp	-1.03	3	1.34	3	1.3	
8012	Atxn3	-1.03	88	3.17	58	3.07	
8013	Cd82	-1.03	41	4.13	22	4	
8014	Chid1	-1.03	0	4.02	0	3.89	
8015	Cmb1	-1.03	11	0.66	9	0.64	
8016	Cmtm8	-1.03	14	0.65	10	0.63	
8017	Dbn1	-1.03	6	0.89	8	0.86	
8018	Dhx58	-1.03	7	0.57	5	0.55	
8019	Dis3l1	-1.03	131	8	85	7.75	
8020	Eva1a	-1.03	3	0.43	4	0.42	
8021	Fem1b	-1.03	297	26.02	172	25.21	
8022	Gbp5	-1.03	4	0.24	3	0.23	
8023	Gpm6b	-1.03	11	0.66	6	0.64	
8024	Gprin2	-1.03	3	0.55	2	0.53	
8025	Hhat	-1.03	23	1.52	23	1.47	
8026	Homer2	-1.03	14	1.13	9	1.09	
8027	Il22ra1	-1.03	6	0.13	2	0.12	
8028	LOC100910575	-1.03	1	0.88	0	0.85	
8029	LOC100910689	-1.03	0	0.9	1	0.87	
8030	LOC100910934	-1.03	0	0.6	0	0.58	
8031	LOC360919	-1.03	6	0.32	15	0.31	
8032	LOC688672	-1.03	3	1.23	1	1.19	
8033	Lrfn1	-1.03	37	3.14	25	3.04	
8034	Mars2	-1.03	0	0.85	0	0.82	
8035	Mrc1	-1.03	14	0.29	10	0.28	
8036	Mrps28	-1.03	96	9.52	66	9.22	
8037	Msl1l1	-1.03	3	0.36	1	0.35	
8038	Mterfd3	-1.03	20	0.46	14	0.45	
8039	Myo7b	-1.03	1918	0.11	292	0.11	
8040	Neu3	-1.03	10	0.65	5	0.63	
8041	Oip5	-1.03	7	1.1	8	1.06	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8042	Pag1	-1.03	30	3.66	14	3.54	
8043	Pbx3	-1.03	119	6.91	78	6.7	
8044	Pcdhb17	-1.03	6	0.62	4	0.6	
8045	Pde3b	-1.03	12	0.17	20	0.16	
8046	Perp	-1.03	3	0.4	3	0.39	
8047	Pigp	-1.03	20	4.01	19	3.88	
8048	Qtrtd1	-1.03	21	2.99	16	2.89	
8049	RGD1307621	-1.03	17	2.37	13	2.29	
8050	RGD1566320	-1.03	28	10.41	19	10.09	
8051	Rn60_11_0375.8	-1.03	27	9.97	18	9.66	
8052	Rn60_6_0863.2	-1.03	4	4.52	2	4.38	
8053	Rpl39_3	-1.03	0	9.58	0	9.28	
8054	Rwdd3	-1.03	8	1.41	15	1.37	
8055	Sft2d3	-1.03	24	2.72	16	2.63	
8056	Sgol2	-1.03	11	0.57	9	0.56	
8057	Sh3bp2	-1.03	30	2.09	18	2.03	
8058	Shank3	-1.03	14	0.14	5	0.14	
8059	Sirt5	-1.03	169	16.78	138	16.25	
8060	SNORD14_2	-1.03	0	8.79	0	8.52	
8061	Stambpl1	-1.03	28	2.4	28	2.33	
8062	Timm10b_2	-1.03	0	1	1	0.96	
8063	Tlr4	-1.03	6	0.45	5	0.43	
8064	Traf3ip2	-1.03	44	2.18	22	2.12	
8065	Ttc9	-1.03	8	0.65	4	0.63	
8066	Ubac1	-1.03	78	8.29	55	8.03	
8067	Wbscr17	-1.03	39	0.39	22	0.38	
8068	Wnk1	-1.03	1265	26.03	863	25.22	
8069	Zfand1	-1.03	14	3.71	14	3.59	
8070	Zfp3	-1.03	14	1.22	8	1.18	
8071	Zfp407	-1.03	193	3.73	149	3.62	
8072	Zfp511	-1.03	35	6.13	27	5.94	
8073	Zfp526	-1.03	93	4.76	61	4.61	
8074	Zfp759	-1.03	51	1.15	43	1.12	
8075	Zmpste24	-1.03	129	13.28	92	12.86	
8076	2900026A02Rik	-1.03	9	0.07	9	0.07	
8077	AABR07000121.1	-1.03	19	0.61	12	0.59	
8078	AABR07003017.1	-1.03	0	1.68	0	1.63	
8079	AABR07011682.1	-1.03	16	1.44	14	1.4	
8080	AABR07031399.1	-1.03	13	0.49	8	0.47	
8081	AABR07035832.1	-1.03	8	2.27	6	2.19	
8082	AABR07044414.1	-1.03	0	0.85	0	0.82	
8083	AABR07051249.1	-1.03	6	0.33	2	0.32	
8084	AABR07057683.1	-1.03	8	4.89	4	4.73	
8085	Abhd5	-1.03	80	5.91	53	5.73	
8086	Abhd6	-1.03	194	9.91	127	9.6	
8087	AC127013.1	-1.03	0	0.72	0	0.7	
8088	Acd	-1.03	56	19.01	42	18.42	
8089	Ackr4	-1.03	1	0.37	0	0.36	
8090	Akr1b8	-1.03	30	2.12	23	2.05	
8091	Arhgap26	-1.03	55	0.99	37	0.96	
8092	Bag4	-1.03	43	5.45	34	5.28	
8093	Bspry	-1.03	7	0.34	4	0.33	
8094	Card9	-1.03	8	0.41	9	0.39	
8095	Ccdc175	-1.03	13	0.28	8	0.27	

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Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8096	Cdca3	-1.03	52	10.02	34	9.71	
8097	Chn3	-1.03	3	0.62	2	0.6	
8098	Cisd2	-1.03	231	19.73	160	19.12	
8099	Cnga2_2	-1.03	3	0.22	2	0.21	
8100	Cntn1	-1.03	6	0.19	7	0.18	
8101	Creb1	-1.03	89	19.25	87	18.65	
8102	Dhrs4	-1.03	55	7.63	48	7.39	
8103	Ebag9	-1.03	72	6.61	44	6.4	
8104	Efr3b	-1.03	16	0.76	10	0.74	
8105	Ehhadh	-1.03	6	0.24	4	0.23	
8106	Esyt3	-1.03	10	0.32	6	0.31	
8107	Fah	-1.03	20	2.17	13	2.1	
8108	Fam166a	-1.03	2	0.6	2	0.58	
8109	Galnt3	-1.03	11	0.5	6	0.48	
8110	Glt8d2	-1.03	6	0.71	5	0.69	
8111	Gtpbp8	-1.03	41	1.87	29	1.81	
8112	Haus1_1	-1.03	0	3.57	0	3.46	
8113	Hddc3	-1.03	26	3.78	18	3.66	
8114	Hist1h2ah	-1.03	2	1.9	2	1.84	
8115	Impa2	-1.03	25	1.28	8	1.24	
8116	Itpk1	-1.03	33	2.81	28	2.72	
8117	Krt222	-1.03	5	0.23	4	0.23	
8118	Lcn12	-1.03	7	0.81	12	0.79	
8119	LOC100910735	-1.03	0	0.45	0	0.44	
8120	LOC100912429	-1.03	0	5.5	0	5.32	
8121	LOC365839	-1.03	1	0.6	1	0.59	
8122	LOC498368	-1.03	3	0.29	2	0.28	
8123	Map3k13	-1.03	155	0.4	51	0.39	
8124	Mfn2	-1.03	0	0.33	0	0.32	
8125	Mfsd8	-1.03	37	1.99	36	1.93	
8126	Mios	-1.03	66	3.04	38	2.95	
8127	Mtfmt	-1.03	57	6.88	43	6.67	
8128	Mturn	-1.03	22	1.89	13	1.84	
8129	Nanp	-1.03	50	5.64	28	5.47	
8130	Ndst3	-1.03	8	0.27	5	0.26	
8131	Nkpd1	-1.03	6	0.3	2	0.29	
8132	Nol3	-1.03	6	0.99	4	0.96	
8133	Nptx1	-1.03	12	0.47	6	0.46	
8134	Nudcd1	-1.03	105	6.4	71	6.2	
8135	Olr621_1	-1.03	2	0.82	2	0.8	
8136	Oraov1	-1.03	11	2.23	6	2.16	
8137	Pak6	-1.03	3	0.16	6	0.15	
8138	Pecr	-1.03	12	1.82	11	1.76	
8139	Plch1	-1.03	10	0.22	7	0.22	
8140	Plekhb1	-1.03	68	0.77	21	0.75	
8141	Plekhf1	-1.03	48	8.09	32	7.84	
8142	Plekhf2	-1.03	85	6.55	54	6.35	
8143	Pole2	-1.03	29	3.09	21	2.99	
8144	Polr2i	-1.03	0	5.93	0	5.75	
8145	Potea	-1.03	3	0.14	2	0.14	
8146	Ppcdc	-1.03	8	1.1	6	1.07	
8147	Prkag1	-1.03	2007	23.89	1346	23.15	
8148	Prkcg	-1.03	15	0.48	7	0.47	
8149	Prrg2	-1.03	6	0.52	2	0.51	

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	A	B	C	D	E	F	G
8150	Rdh14	-1.03	14	1.6	14	1.55	
8151	Rem2	-1.03	3	0.41	3	0.4	
8152	RGD1565635	-1.03	3	0.45	2	0.43	
8153	Rmi1	-1.03	81	9.39	54	9.1	
8154	Rnf128	-1.03	4	0.23	4	0.23	
8155	Rp9	-1.03	65	5.23	45	5.07	
8156	Rpl27-l1	-1.03	1	1.81	1	1.76	
8157	Rpl38_1	-1.03	0	3.51	0	3.4	
8158	RT1-N2	-1.03	2	0.37	2	0.36	
8159	RT1-T24-3	-1.03	16	0.94	10	0.91	
8160	Sbf1	-1.03	636	23.2	419	22.47	
8161	Scube2	-1.03	24	0.72	10	0.7	
8162	Slc51a	-1.03	19	0.93	41	0.9	
8163	Sox8	-1.03	4	0.23	2	0.22	
8164	Spata1	-1.03	15	0.4	11	0.39	
8165	Stx1a	-1.03	52	2.43	40	2.35	
8166	Tbkbp1	-1.03	3	0.23	4	0.22	
8167	Tifa	-1.03	18	1.68	14	1.63	
8168	Tigd5	-1.03	18	1.78	12	1.72	
8169	Tsga10ip	-1.03	18	0.3	23	0.29	
8170	Ttll13	-1.03	50	0.89	64	0.86	
8171	Unc13d	-1.03	4	0.19	3	0.18	
8172	Y_RNA_8	-1.03	15	36.64	10	35.5	
8173	Zfp13	-1.03	16	1.41	16	1.36	
8174	Erbp2ip	-1.03	351	13.94	252	13.49	
8175	Glyr1	-1.03	489	31.02	326	29.98	
8176	Trak1	-1.03	325	10.72	202	10.36	
8177	Ankrd13a	-1.03	655	41.08	408	39.7	
8178	Aif1l	-1.03	818	62.74	553	60.62	
8179	Phf5a	-1.04	204	51.95	132	50.18	
8180	Ythdf1	-1.04	420	28.73	265	27.75	
8181	Laptm4a	-1.04	1774	227.74	1168	219.91	
8182	C1galt1	-1.04	165	6.32	107	6.1	
8183	Map4k3	-1.04	261	8.7	206	8.4	
8184	LOC103689945	-1.04	42	25.14	20	24.27	
8185	Mief1	-1.04	185	17.13	122	16.54	
8186	Ice1	-1.04	469	14.22	287	13.73	
8187	Strip1	-1.04	298	17.3	195	16.69	
8188	Fam136a	-1.04	115	17.06	75	16.45	
8189	Cabin1	-1.04	292	7.55	202	7.28	
8190	Ankhd1	-1.04	541	11.78	395	11.36	
8191	P4hb	-1.04	2790	274.89	1835	264.9	
8192	Zcchc6	-1.04	256	8.89	171	8.57	
8193	Pold1	-1.04	103	5.53	67	5.33	
8194	Cyb5b	-1.04	392	20.49	275	19.74	
8195	Dip2b	-1.04	326	9.11	232	8.77	
8196	Pon2	-1.04	77	24.85	59	23.93	
8197	Cnot3	-1.04	291	21.65	196	20.85	
8198	Morf4l2	-1.04	1281	163.77	860	157.72	
8199	Zfyve27	-1.04	196	7.74	133	7.46	
8200	Helz	-1.04	334	10.14	225	9.76	
8201	Ddx47	-1.04	178	21.17	132	20.38	
8202	Nol11	-1.04	233	18.51	147	17.82	
8203	Rps11	-1.04	768	304.75	484	293.32	

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	A	B	C	D	E	F	G
8204	Mapk6	-1.04	321	18.21	218	17.53	
8205	Hiatl1	-1.04	248	17.84	157	17.17	
8206	Luc7l2	-1.04	597	21.46	442	20.65	
8207	Zfp827	-1.04	249	11.76	167	11.32	
8208	Gclm	-1.04	90	12.41	61	11.94	
8209	Ap4e1	-1.04	121	5.08	76	4.89	
8210	Psmc1	-1.04	793	59.66	529	57.4	
8211	Mrpl14	-1.04	82	20.01	55	19.25	
8212	Akt1s1	-1.04	179	21.43	124	20.61	
8213	Bcl7c	-1.04	77	17.18	48	16.52	
8214	ldh3a	-1.04	280	26.64	185	25.61	
8215	LOC100363782	-1.04	350	43.84	227	42.15	
8216	Cyc1	-1.04	328	65.89	216	63.32	
8217	Kctd5	-1.04	135	12.19	91	11.71	
8218	Prmt10	-1.04	152	10.92	126	10.49	
8219	Phf8	-1.04	537	20.92	338	20.1	
8220	Msl1	-1.04	337	21.59	205	20.74	
8221	Skiv2l2	-1.04	290	15.73	195	15.11	
8222	Bcl10	-1.04	136	17.53	93	16.83	
8223	Dsel	-1.04	109	6.75	71	6.48	
8224	Trim28	-1.04	1238	103.81	796	99.63	
8225	Tmem127	-1.04	391	24.6	270	23.61	
8226	Pola2	-1.04	77	5.01	40	4.81	
8227	Aarsd1	-1.04	72	4	42	3.83	
8228	Cep89	-1.04	59	4.59	51	4.41	
8229	Rplp1_1	-1.04	2653	2178.69	1704	2090.66	
8230	Cbx1	-1.04	138	45.99	75	44.12	
8231	Supt20	-1.04	299	18.3	219	17.55	
8232	Rbm34	-1.04	84	4.35	55	4.17	
8233	Pcdhgb5	-1.04	45	4.89	29	4.68	
8234	Trappc8	-1.04	288	11.06	189	10.6	
8235	Fancm	-1.04	128	3.46	88	3.31	
8236	Cdc6	-1.04	50	3.59	30	3.44	
8237	Fem1c	-1.04	196	6.48	121	6.2	
8238	Rgp1	-1.04	197	9.11	150	8.73	
8239	Evi5l	-1.04	65	5.51	50	5.28	
8240	Pard6g	-1.04	124	7.76	86	7.43	
8241	Pick1	-1.04	65	6	49	5.74	
8242	Aff1	-1.04	283	11.02	202	10.55	
8243	Tcea1_2	-1.04	109	27.26	80	26.1	
8244	St5	-1.04	576	22.29	352	21.34	
8245	Bag3	-1.04	194	17.47	119	16.72	
8246	Pgpep1	-1.04	94	12.66	65	12.12	
8247	Slc38a2	-1.04	1727	86.5	1107	82.8	
8248	Chaf1b	-1.05	52	5.02	36	4.81	
8249	Bcl2l12	-1.05	87	6.04	54	5.78	
8250	Kdm5a	-1.05	710	14.36	474	13.74	
8251	Hspbp1	-1.05	186	27.86	125	26.65	
8252	Tmem115	-1.05	166	18.33	109	17.53	
8253	Wdr37	-1.05	232	9.21	141	8.81	
8254	Cyth3	-1.05	87	5.03	63	4.81	
8255	RGD1559904	-1.05	361	13.72	242	13.13	
8256	Casp8ap2	-1.05	130	3.96	83	3.78	
8257	Ncoa6	-1.05	445	14.48	293	13.85	

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	A	B	C	D	E	F	G
8258	Rps2_2	-1.05	53	427.99	77	409.28	
8259	Man1a2	-1.05	187	11.1	126	10.62	
8260	Mrfap1_2	-1.05	590	111.11	416	106.24	
8261	Hnrnpul2	-1.05	377	33.66	243	32.18	
8262	Cox16	-1.05	50	12.3	40	11.76	
8263	Tmem136	-1.05	126	8.56	78	8.18	
8264	Eif2a	-1.05	155	12.81	108	12.25	
8265	Nudt19	-1.05	45	6.59	29	6.3	
8266	P3h2	-1.05	58	4.49	38	4.29	
8267	Trnau1ap	-1.05	87	4.26	52	4.07	
8268	Kars	-1.05	433	47.93	285	45.81	
8269	Phf2	-1.05	456	19.84	311	18.97	
8270	Al314180	-1.05	578	22.42	368	21.43	
8271	Mkrm2	-1.05	125	12.52	89	11.97	
8272	Wdr12	-1.05	112	12.84	62	12.26	
8273	Prpf40a	-1.05	382	22.65	251	21.64	
8274	Ranbp9	-1.05	199	12.98	168	12.4	
8275	Rmnd5a	-1.05	152	20.7	98	19.77	
8276	Gosr1	-1.05	297	14.66	213	14	
8277	Pip5k1a	-1.05	391	23.03	273	22	
8278	Gtf2e2	-1.05	106	11.59	72	11.07	
8279	Thap4	-1.05	131	13.57	102	12.96	
8280	LOC361985	-1.05	291	37.55	193	35.85	
8281	Fzd6	-1.05	251	12.27	162	11.72	
8282	Rtel1	-1.05	216	9.78	145	9.34	
8283	LOC688176	-1.05	110	10.85	71	10.36	
8284	Uqcc1	-1.05	171	10.48	115	10.01	
8285	Gnai1	-1.05	160	16.95	96	16.17	
8286	Sdhaf2	-1.05	112	13.3	82	12.69	
8287	Rbm25l1	-1.05	198	18.99	140	18.12	
8288	Atp6v0b	-1.05	197	47.6	136	45.39	
8289	Erp29	-1.05	190	25.93	135	24.73	
8290	Rnf25	-1.05	142	14.94	86	14.25	
8291	Rnf7	-1.05	118	19.04	86	18.16	
8292	Brd4	-1.05	984	28.89	635	27.55	
8293	Ddx6	-1.05	650	49.69	441	47.37	
8294	Reps1	-1.05	177	16.56	128	15.79	
8295	Ppp6c	-1.05	217	25.62	153	24.43	
8296	Abcf2	-1.05	214	21.27	148	20.28	
8297	Crip2	-1.05	126	26.99	80	25.73	
8298	Kat6a	-1.05	572	15.31	376	14.6	
8299	Hace1	-1.05	143	6.73	107	6.42	
8300	Rad21	-1.05	789	53.95	510	51.42	
8301	Gnpnat1	-1.05	122	8.81	72	8.39	
8302	Bloc1s6	-1.05	70	4.37	56	4.16	
8303	RGD1306926	-1.05	66	2.88	48	2.75	
8304	Serinc5	-1.05	1515	61.92	948	58.99	
8305	Numa1	-1.05	1264	38.18	824	36.37	
8306	Pcmt1	-1.05	145	26.23	96	24.98	
8307	Tcof1	-1.05	231	12.43	158	11.84	
8308	Xpo4	-1.05	206	4.78	133	4.55	
8309	Tnrc18	-1.05	1348	27.98	891	26.64	
8310	Tbc1d15	-1.05	326	20.41	215	19.43	
8311	Fam126a	-1.05	238	5.6	267	5.33	

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	A	B	C	D	E	F	G
8312	Ssbp1	-1.05	40	9.95	36	9.48	
8313	Cep5711	-1.05	56	3.1	40	2.95	
8314	Cyp4v3	-1.05	30	1.97	21	1.87	
8315	Dpcd	-1.05	38	8.21	33	7.82	
8316	Ano6	-1.05	744	25.44	486	24.21	
8317	Seh1l	-1.05	454	5.28	301	5.03	
8318	Wbp5	-1.05	1460	365.51	950	347.77	
8319	Tssc1	-1.05	113	13.29	75	12.64	
8320	Ube2m	-1.05	514	63.59	340	60.5	
8321	Akap11	-1.05	326	8.29	221	7.88	
8322	Cenpj	-1.05	99	5.14	76	4.89	
8323	Mrrf	-1.05	92	5.65	61	5.37	
8324	Gnl3l	-1.05	313	16.04	204	15.25	
8325	Stoml2	-1.05	117	20.6	78	19.59	
8326	Pom121	-1.05	383	16.88	254	16.05	
8327	Tatdn2	-1.05	142	11.53	96	10.96	
8328	Pds5b	-1.05	434	10.39	278	9.88	
8329	Ranbp2	-1.05	677	18.35	462	17.44	
8330	Pcdhb3	-1.05	26	2.54	16	2.41	
8331	Tbcb	-1.05	0	11.96	0	11.37	
8332	AABR07058985.1	-1.05	26	6.35	19	6.03	
8333	Hdac6_2	-1.05	0	1.87	0	1.77	
8334	Nphp3	-1.05	67	2.94	52	2.79	
8335	Farsa	-1.05	255	31.68	174	30.09	
8336	Cisd1	-1.05	129	34.62	86	32.87	
8337	Mrpl27	-1.05	83	26.93	58	25.56	
8338	Cnih4	-1.05	285	33.22	176	31.53	
8339	Eif4g3	-1.05	676	24.02	459	22.8	
8340	LOC103690317	-1.05	84	35.32	51	33.51	
8341	AABR07027575.1	-1.05	121	79.13	84	75.07	
8342	Rab28	-1.05	171	17.88	126	16.97	
8343	Ist1	-1.05	251	29.2	183	27.7	
8344	RGD1311345	-1.05	144	9.27	86	8.79	
8345	Sdhc	-1.05	418	82.48	270	78.22	
8346	Fyco1	-1.05	262	6.73	190	6.38	
8347	Cdc25a	-1.05	199	11.95	136	11.33	
8348	Arhgef40	-1.05	275	9.49	180	9	
8349	Dync1h1	-1.06	2882	51.94	1954	49.23	
8350	Ado	-1.06	23	4.91	15	4.65	
8351	Snupn	-1.06	157	4.3	93	4.07	
8352	AABR07069282.1	-1.06	14	1.83	10	1.74	
8353	Cep162	-1.06	39	0.97	27	0.92	
8354	Magee1	-1.06	23	1.61	15	1.52	
8355	Tesk1	-1.06	162	11.17	107	10.58	
8356	Brcc3	-1.06	108	11.09	73	10.5	
8357	Mvp	-1.06	175	12.07	131	11.43	
8358	Mecp2	-1.06	103	9.27	75	8.78	
8359	Zbtb10	-1.06	85	3.48	60	3.3	
8360	Pabpc4	-1.06	358	43.52	245	41.19	
8361	Nmt1	-1.06	458	41.49	288	39.26	
8362	Cnppd1	-1.06	234	24.21	148	22.91	
8363	Cwf19l1	-1.06	110	9.28	89	8.78	
8364	Dph3	-1.06	83	6.61	59	6.25	
8365	Pdss2	-1.06	145	5.17	107	4.89	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8366	Sp3	-1.06	263	27.3	183	25.83	
8367	Csde1	-1.06	224	74.66	190	70.61	
8368	Dopey1	-1.06	208	4.08	146	3.86	
8369	LOC683674	-1.06	85	7.55	54	7.14	
8370	Rfc5	-1.06	86	7.5	53	7.1	
8371	Tom1l2	-1.06	338	14.33	233	13.55	
8372	Ctnnd1	-1.06	1528	67.74	1009	64.05	
8373	Psmb1	-1.06	444	92.15	290	87.13	
8374	Prdm15	-1.06	107	3.14	65	2.97	
8375	Mif	-1.06	172	147.49	117	139.42	
8376	Tmem87a	-1.06	191	6.68	140	6.31	
8377	Tmed9	-1.06	520	91.04	336	86.03	
8378	Ovca2	-1.06	13	1.7	8	1.6	
8379	Kmt2c	-1.06	32	9.69	25	9.15	
8380	Prpf6	-1.06	440	29.13	291	27.52	
8381	Rfxap_2	-1.06	0	3.01	0	2.85	
8382	Usp4	-1.06	415	20.68	254	19.54	
8383	Zfp319	-1.06	90	8.86	60	8.37	
8384	Igf2r	-1.06	1716	16.84	631	15.91	
8385	C2cd3	-1.06	236	6.86	154	6.48	
8386	Tsc1	-1.06	187	8.95	119	8.45	
8387	Cd164	-1.06	775	66.06	500	62.36	
8388	Ciapi1	-1.06	109	13.06	78	12.32	
8389	Zdhc17	-1.06	127	6.65	126	6.27	
8390	Atp5g3	-1.06	483	164.39	312	155.1	
8391	Lrpprc	-1.06	308	14.28	209	13.47	
8392	Pnkp	-1.06	65	7.42	41	7	
8393	Trim21	-1.06	70	3.48	46	3.28	
8394	Pcsk7	-1.06	286	8.21	113	7.74	
8395	Dgcr14	-1.06	16	5.34	13	5.03	
8396	Ift74	-1.06	66	4.37	35	4.12	
8397	Mmd	-1.06	84	6.35	57	5.98	
8398	Ubl5	-1.06	142	68.88	91	64.91	
8399	Ppp1r15b	-1.06	442	20.27	282	19.1	
8400	Fam134b_1	-1.06	83	10.62	71	10.01	
8401	Zfp318	-1.06	220	6.59	164	6.2	
8402	Elmo2	-1.06	187	23.82	157	22.43	
8403	Rfwd2	-1.06	295	16.95	201	15.96	
8404	Epb4.1l5	-1.06	137	7.37	81	6.94	
8405	Ghitm	-1.06	368	63.23	233	59.53	
8406	Rlf	-1.06	220	7.8	148	7.34	
8407	AABR07066142.1	-1.06	0	8.11	0	7.63	
8408	Cacna2d2	-1.06	26	0.89	22	0.84	
8409	Cdc14b	-1.06	365	8.56	245	8.05	
8410	Coa5	-1.06	216	17.52	137	16.47	
8411	Dck	-1.06	23	3.62	14	3.41	
8412	Mkx	-1.06	39	6.37	27	5.99	
8413	Ncapg	-1.06	59	2.53	42	2.38	
8414	Npm3	-1.06	56	24.34	43	22.89	
8415	Pgm2	-1.06	82	8.04	50	7.56	
8416	Tnfrsf10b	-1.06	25	2.03	14	1.91	
8417	Zak	-1.06	93	10.64	67	10.01	
8418	Zbtb7a	-1.06	177	11.99	102	11.27	
8419	Gpbp1	-1.06	262	15.15	180	14.24	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8420	Manbal	-1.06	179	38.42	125	36.11	
8421	Pkm_1	-1.06	630	319.61	410	300.31	
8422	Topors	-1.06	261	14.13	164	13.28	
8423	Zcchc8	-1.06	181	9.27	123	8.71	
8424	Kansl3	-1.06	415	19.95	286	18.75	
8425	Smg8	-1.06	92	5.46	60	5.13	
8426	Bub1	-1.07	69	3.6	46	3.38	
8427	Klhl5	-1.07	84	4.7	57	4.42	
8428	Cox8a	-1.07	317	155.04	203	145.56	
8429	Rraga	-1.07	226	35.26	146	33.1	
8430	Fam149a	-1.07	57	2.19	45	2.06	
8431	Tbc1d7	-1.07	43	8.76	35	8.22	
8432	Reep5	-1.07	454	36.6	294	34.33	
8433	Cd9	-1.07	663	125.5	416	117.72	
8434	Zfp330	-1.07	110	9.64	71	9.04	
8435	Aftph	-1.07	237	12.23	171	11.47	
8436	Chmp7	-1.07	147	13.99	95	13.11	
8437	Dmpk	-1.07	90	2.78	48	2.61	
8438	Tmem173	-1.07	63	7.57	42	7.1	
8439	Gucy1b3	-1.07	65	4.81	46	4.51	
8440	Ywhag	-1.07	1621	113.04	1054	105.96	
8441	Fhod1	-1.07	154	8.12	101	7.61	
8442	Bok	-1.07	537	72.08	352	67.5	
8443	Prr36	-1.07	52	3.46	32	3.24	
8444	Pfkfb3	-1.07	121	5.49	77	5.14	
8445	Rc3h2	-1.07	500	20.49	346	19.18	
8446	Gng5_2	-1.07	62	23.61	49	22.09	
8447	Il17ra	-1.07	180	10.37	106	9.7	
8448	Gpd2	-1.07	168	7.03	116	6.57	
8449	Taldo1	-1.07	223	43.51	149	40.69	
8450	Golga5	-1.07	141	11.14	104	10.42	
8451	Med12	-1.07	151	8.13	126	7.6	
8452	Arcn1	-1.07	892	62.24	577	58.19	
8453	Csnk2a2	-1.07	327	28.07	222	26.24	
8454	Xpo1	-1.07	595	31.57	396	29.5	
8455	Dennd1a	-1.07	367	5.24	271	4.9	
8456	Dpm1	-1.07	87	4.56	54	4.26	
8457	Kif4a	-1.07	49	2.22	26	2.07	
8458	Klhl18	-1.07	96	5.84	71	5.45	
8459	Nhlrc2	-1.07	310	8.41	214	7.85	
8460	Ociad2	-1.07	16	8.81	10	8.23	
8461	Sdf2l1	-1.07	44	9.84	29	9.19	
8462	Tapt1	-1.07	177	10.24	118	9.56	
8463	Wdr5b	-1.07	14	1.88	9	1.76	
8464	Wrap73	-1.07	81	5.08	43	4.74	
8465	LOC498154	-1.07	37	2.42	48	2.26	
8466	Mtbp	-1.07	59	3.18	42	2.97	
8467	Tgm4	-1.07	43	2.42	30	2.26	
8468	Rragc	-1.07	259	23.21	164	21.67	
8469	Ywhab	-1.07	872	77.68	544	72.52	
8470	RGD1561149	-1.07	103	4.58	62	4.27	
8471	Nit2	-1.07	110	19.63	82	18.31	
8472	Hnrrnpl	-1.07	1311	138.56	838	129.25	
8473	Pogk	-1.07	416	13.42	261	12.52	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8474	Actr10	-1.07	185	27.96	113	26.06	
8475	Atf7	-1.07	229	11.88	165	11.08	
8476	Cwf19l2	-1.07	69	1.99	61	1.85	
8477	LOC100911774	-1.07	0	13.29	0	12.38	
8478	Zfp212	-1.07	63	8.93	39	8.32	
8479	Fam91a1	-1.07	478	19.92	312	18.57	
8480	Arfrp1	-1.07	102	24.05	66	22.42	
8481	Kif7	-1.07	103	5.69	70	5.31	
8482	Actr8	-1.07	192	20.62	126	19.21	
8483	Comt	-1.07	238	25.89	143	24.12	
8484	lpmk	-1.07	110	3.61	68	3.36	
8485	Sipa1l2	-1.07	326	10.16	222	9.47	
8486	Btbd10	-1.07	156	11.88	115	11.07	
8487	Mast3	-1.07	80	3.21	55	2.99	
8488	Map3k4	-1.07	307	12.44	202	11.58	
8489	Plekhh3	-1.07	66	5.34	45	4.97	
8490	Oser1	-1.07	158	17.52	86	16.31	
8491	Rpl28	-1.07	509	127.11	369	118.25	
8492	Lonp2	-1.07	372	16.81	240	15.64	
8493	Bzw1	-1.08	607	87.64	371	81.5	
8494	Glo1	-1.08	135	29.8	92	27.72	
8495	Lin54	-1.08	92	4.33	63	4.03	
8496	LOC100910990	-1.08	0	7.13	0	6.63	
8497	Purg	-1.08	25	4.29	16	3.99	
8498	Scfd2	-1.08	50	2.67	37	2.48	
8499	Spire1	-1.08	145	4.46	91	4.15	
8500	Timm13	-1.08	75	23.21	50	21.59	
8501	Zfp105	-1.08	79	6.21	57	5.78	
8502	RGD1306941	-1.08	25	2.1	20	1.95	
8503	Atrx	-1.08	443	8.19	316	7.62	
8504	Amd1	-1.08	308	21.38	193	19.87	
8505	Mta1	-1.08	517	34.57	317	32.13	
8506	Xpnpep1	-1.08	565	50.62	379	47.05	
8507	Canx	-1.08	2971	144.47	1879	134.27	
8508	Cdkn1a	-1.08	284	32.97	177	30.64	
8509	Zfp598	-1.08	293	20.47	180	19.02	
8510	Snx13	-1.08	138	7.24	91	6.72	
8511	Mga	-1.08	393	9.62	266	8.94	
8512	Prr13	-1.08	642	152.2	387	141.35	
8513	Bin1	-1.08	236	13.11	164	12.17	
8514	Plscr4	-1.08	220	11.15	148	10.36	
8515	Anapc10	-1.08	55	4.84	39	4.5	
8516	Ccdc43	-1.08	79	7.86	50	7.3	
8517	Edrf1	-1.08	97	3.31	76	3.07	
8518	Pphln1	-1.08	309	9.23	221	8.57	
8519	Phf12	-1.08	318	12.58	208	11.67	
8520	AABR07021704.1	-1.08	57	4.42	41	4.1	
8521	Cyp1b1	-1.08	50	2.13	30	1.98	
8522	Plcd3	-1.08	60	3.99	33	3.7	
8523	Snd1	-1.08	1016	64.53	655	59.85	
8524	Dnmt1	-1.08	552	21.77	358	20.19	
8525	Fh	-1.08	155	22.14	101	20.53	
8526	Timm10	-1.08	50	11.09	31	10.29	
8527	Zfp628	-1.08	54	3.83	37	3.55	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8528	Mical3	-1.08	360	10.55	250	9.78	
8529	Apmap	-1.08	113	10.9	79	10.11	
8530	Cox20	-1.08	139	14.06	102	13.03	
8531	Gmpr2	-1.08	81	5.75	58	5.33	
8532	Sae1	-1.08	568	38.72	366	35.89	
8533	Cct3	-1.08	816	95.77	516	88.75	
8534	Ube2g2	-1.08	190	17.93	108	16.61	
8535	Eif3m	-1.08	317	57.16	203	52.96	
8536	Shroom2	-1.08	192	5.41	131	5.01	
8537	Anapc5	-1.08	1161	104.46	776	96.73	
8538	Mapk7	-1.08	3	5.25	5	4.86	
8539	Tma7	-1.08	41	58.52	18	54.17	
8540	Xpr1	-1.08	177	12.37	114	11.46	
8541	Pank4	-1.08	173	11.38	108	10.54	
8542	LOC100910882	-1.08	51	68.1	51	63.03	
8543	Mink1	-1.08	333	14.4	217	13.33	
8544	Acaca	-1.08	370	11.51	238	10.66	
8545	Rps6ka4	-1.08	171	12.55	111	11.62	
8546	Pkn2	-1.08	605	21.36	404	19.77	
8547	Irf3	-1.08	272	28.99	184	26.83	
8548	Rnps1	-1.08	549	71.93	352	66.57	
8549	Sfswap	-1.08	406	13.35	287	12.35	
8550	Eif2s3	-1.08	550	29.79	354	27.56	
8551	Tbl1x	-1.08	730	31.75	480	29.38	
8552	Cab39	-1.08	475	26.14	303	24.18	
8553	AABR07036374.1	-1.08	13	1.86	12	1.72	
8554	AABR07064061.1	-1.08	44	11.47	26	10.6	
8555	Cd83	-1.08	12	1.29	10	1.2	
8556	LOC683897	-1.08	28	2.26	33	2.09	
8557	Msl2	-1.08	117	9.71	72	8.98	
8558	Nfkbiz	-1.08	12	0.68	14	0.63	
8559	P2rx7	-1.08	14	0.72	8	0.66	
8560	Pigb	-1.08	15	1.25	12	1.16	
8561	Zfp472	-1.08	25	2.7	14	2.5	
8562	Gnb1l	-1.08	66	1.73	73	1.6	
8563	Gstcd	-1.08	80	2.9	46	2.68	
8564	LOC100909998	-1.08	10	0.73	7	0.67	
8565	LOC100912024	-1.08	0	6.01	0	5.56	
8566	Mapre3	-1.08	57	6.07	37	5.61	
8567	Pltp	-1.08	14	1.35	10	1.25	
8568	Rpl35a_3	-1.08	0	8.31	0	7.68	
8569	Tas1r1	-1.08	22	0.96	23	0.89	
8570	Top1mt	-1.08	46	3.48	29	3.22	
8571	Trim59	-1.08	38	2.97	25	2.74	
8572	Zfp579	-1.08	47	3.84	33	3.55	
8573	Ap2m1	-1.08	1000	136.17	639	125.9	
8574	Dpp8	-1.08	577	32.9	377	30.42	
8575	Cacnb3	-1.08	238	20.35	150	18.81	
8576	Fis1	-1.08	263	37.06	169	34.25	
8577	Aifm1	-1.08	194	16.78	138	15.5	
8578	Inpp5a	-1.08	162	10.36	123	9.57	
8579	Irak1	-1.08	399	28.22	247	26.06	
8580	Spopl	-1.08	103	10.33	74	9.53	
8581	Kank2	-1.08	1389	59.81	885	55.19	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8582	Cwc27	-1.08	136	6.8	92	6.27	
8583	Sat1	-1.08	80	12.52	48	11.55	
8584	LOC680227	-1.08	3771	15.82	3179	14.59	
8585	Alg12	-1.08	91	6.35	59	5.86	
8586	Nsdhl	-1.08	280	23.3	184	21.48	
8587	Phb	-1.09	269	54.45	162	50.18	
8588	Ccne2	-1.09	66	3.37	44	3.11	
8589	Gba2	-1.09	216	10.14	104	9.35	
8590	Lbr	-1.09	137	16.45	96	15.16	
8591	Mex3b	-1.09	124	9.04	78	8.33	
8592	Mrps11	-1.09	68	11.45	65	10.55	
8593	Ints8	-1.09	290	17.36	208	15.99	
8594	Sec24b	-1.09	615	26.95	413	24.83	
8595	Epc2	-1.09	82	7.57	67	6.97	
8596	Atic	-1.09	352	32.6	215	30.03	
8597	Rnf145	-1.09	551	39.47	346	36.35	
8598	Ankrd40	-1.09	332	22.32	204	20.56	
8599	Ywhaq	-1.09	1040	119.54	654	110.05	
8600	Csf1	-1.09	92	5.54	63	5.1	
8601	Fam8a1	-1.09	62	6.47	33	5.96	
8602	Fnbp1l	-1.09	228	11.06	142	10.18	
8603	Lrrc45	-1.09	70	3.88	47	3.57	
8604	Pdcd2l	-1.09	49	5.42	25	4.99	
8605	Yars2	-1.09	45	4.78	27	4.4	
8606	Frs2	-1.09	244	7.94	163	7.31	
8607	Kctd21	-1.09	30	2.57	19	2.37	
8608	Pold4	-1.09	35	8.91	20	8.2	
8609	Atf6	-1.09	430	20.59	271	18.94	
8610	Ppp2r1a	-1.09	1021	113.88	649	104.75	
8611	Phf23	-1.09	217	27.8	138	25.57	
8612	Elp5	-1.09	265	24.93	177	22.93	
8613	Trim11	-1.09	121	8.47	80	7.79	
8614	Hipk1	-1.09	1157	32.84	702	30.2	
8615	Ppp1r11	-1.09	149	19.07	94	17.53	
8616	Tomm40l	-1.09	50	9.71	32	8.92	
8617	AABR07067737.1	-1.09	74	1.1	50	1.01	
8618	Ddrgk1	-1.09	52	7.76	33	7.14	
8619	Kif15	-1.09	65	2.55	42	2.35	
8620	Rab4a	-1.09	56	8.66	37	7.96	
8621	Nudt3	-1.09	377	31.99	254	29.41	
8622	LOC100911779	-1.09	38	10.28	35	9.44	
8623	Mtap	-1.09	269	5.58	122	5.13	
8624	Nr4a1	-1.09	112	8.15	67	7.49	
8625	Phldb2	-1.09	332	16.52	243	15.17	
8626	Agtr2	-1.09	125	10.58	80	9.71	
8627	Pi4kb	-1.09	587	28.66	372	26.31	
8628	Cptp	-1.09	20	2.4	12	2.2	
8629	LOC691807	-1.09	114	26.3	72	24.14	
8630	Mad2l1	-1.09	45	6.65	29	6.1	
8631	Marcks1l	-1.09	3	3.12	2	2.87	
8632	Mvb12a	-1.09	172	35.26	108	32.36	
8633	RGD1309995	-1.09	224	12.43	159	11.41	
8634	Stambp	-1.09	75	7.35	51	6.75	
8635	Stx18	-1.09	86	9.52	97	8.74	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8636	Tbc1d16	-1.09	46	3.63	35	3.34	
8637	Tdrd3	-1.09	95	4.99	73	4.58	
8638	Zfp1	-1.09	19	3.92	14	3.59	
8639	Smek2	-1.09	280	12.27	181	11.27	
8640	Sun1	-1.09	633	33.75	404	30.97	
8641	Tuba1b	-1.09	1296	969.39	881	889.41	
8642	Crebbp	-1.09	657	14.38	432	13.19	
8643	Selt	-1.09	156	35.92	97	32.95	
8644	Rprd1b	-1.09	119	7.18	91	6.59	
8645	Casp3	-1.09	87	8.51	65	7.8	
8646	Vps26a	-1.09	103	15.01	78	13.77	
8647	Ei24	-1.09	263	31.24	171	28.64	
8648	Desi1	-1.09	94	11.44	63	10.48	
8649	Safb2	-1.09	203	11.67	127	10.69	
8650	Mettl6	-1.09	71	6.97	44	6.39	
8651	Snrpb	-1.09	559	80.94	349	74.13	
8652	Gnl1	-1.09	199	8.89	126	8.14	
8653	Gdi2	-1.09	728	79.49	467	72.78	
8654	Arl5b	-1.09	120	4.71	75	4.31	
8655	Dclk1	-1.09	140	1.95	83	1.78	
8656	Usp22	-1.09	517	51.88	308	47.5	
8657	Psmc7	-1.09	244	35.62	164	32.6	
8658	Rps5	-1.09	1183	381.08	734	348.82	
8659	Eogt	-1.09	181	8.76	113	8.02	
8660	Dctn1	-1.09	576	31.51	359	28.83	
8661	Arhgap11a	-1.09	55	3.23	36	2.95	
8662	Eif4e3	-1.09	43	2.65	20	2.42	
8663	Nedd4l	-1.09	96	3.13	99	2.86	
8664	Pop5	-1.09	30	4.68	18	4.28	
8665	Rab10	-1.09	574	42.16	357	38.57	
8666	RGD1562114	-1.09	32	9.91	19	9.07	
8667	Slc25a32	-1.09	56	2.91	28	2.67	
8668	Ppp6r2	-1.09	216	13.87	152	12.69	
8669	Hnrnpa2b1	-1.09	650	186.23	429	170.33	
8670	Kras	-1.09	93	10.92	61	9.98	
8671	Arfgef2	-1.09	344	8.83	223	8.06	
8672	Gfpt1	-1.09	601	21.09	359	19.26	
8673	Arpc1a	-1.09	324	40.86	202	37.32	
8674	RGD1566265	-1.09	37	7.11	24	6.49	
8675	Sccpdh	-1.1	0	15.15	0	13.84	
8676	Ggnbp2	-1.1	233	16.44	164	15.01	
8677	Zfp62	-1.1	156	12.34	96	11.27	
8678	Cltc	-1.1	278	51.49	176	47	
8679	Zc4h2	-1.1	46	5	32	4.57	
8680	Zfp295	-1.1	182	6.22	105	5.68	
8681	Ythdf2	-1.1	228	23.39	163	21.33	
8682	Zcchc9	-1.1	62	7.91	49	7.21	
8683	Rbm22	-1.1	179	23.65	115	21.56	
8684	Mbnl2	-1.1	1740	62.22	1117	56.72	
8685	Api5	-1.1	564	35.66	337	32.5	
8686	RGD1304728	-1.1	107	4.6	78	4.19	
8687	Ube2l3	-1.1	629	62.22	396	56.7	
8688	RGD1307100	-1.1	553	7.41	352	6.75	
8689	Coro1b	-1.1	618	81.61	382	74.36	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8690	Pkd2	-1.1	500	20.24	303	18.44	
8691	Keap1	-1.1	160	10.56	108	9.62	
8692	Zfp281	-1.1	212	17.06	132	15.54	
8693	Phlpp1	-1.1	226	5.81	159	5.29	
8694	Rpl27	-1.1	474	380.03	388	346.1	
8695	Arid1a	-1.1	1219	36.09	778	32.87	
8696	Rbm27	-1.1	193	11.04	120	10.05	
8697	Abce1	-1.1	451	30.55	281	27.81	
8698	Tbl2	-1.1	102	5.31	72	4.84	
8699	Lman1	-1.1	438	50.05	290	45.55	
8700	Cers4	-1.1	118	7.37	74	6.7	
8701	Golgb1	-1.1	700	14.33	444	13.04	
8702	Scyl1	-1.1	356	31.12	219	28.32	
8703	Prim1	-1.1	159	19.2	107	17.47	
8704	Eno1	-1.1	476	303.32	330	275.91	
8705	Cpeb4	-1.1	202	10.69	122	9.73	
8706	Srpr	-1.1	605	60	395	54.56	
8707	Eef2	-1.1	7049	600.83	4399	546.39	
8708	Phrf1	-1.1	442	18.69	298	16.98	
8709	AC110387.1	-1.1	2	5.19	2	4.71	
8710	Alg6	-1.1	30	2.62	31	2.38	
8711	Cpeb3	-1.1	57	0.75	51	0.68	
8712	Crocc	-1.1	40	0.83	33	0.76	
8713	Erich1	-1.1	46	5.66	30	5.14	
8714	Ryr3	-1.1	18	0.14	16	0.12	
8715	Agbl3	-1.1	35	0.42	22	0.38	
8716	Ap3m2	-1.1	19	1.59	9	1.45	
8717	Armcx6	-1.1	49	6.2	30	5.63	
8718	Car13	-1.1	12	1.01	6	0.91	
8719	Cd80	-1.1	9	0.45	5	0.41	
8720	Cuedc1	-1.1	63	5.59	41	5.07	
8721	Exnef	-1.1	35	0.64	27	0.58	
8722	Kif5a	-1.1	11	0.32	13	0.29	
8723	LOC684270	-1.1	22	2.16	22	1.96	
8724	Nfxl1	-1.1	101	4.2	58	3.81	
8725	Rad51ap1	-1.1	22	2.01	19	1.83	
8726	Rad9a	-1.1	57	8.45	33	7.68	
8727	Rasl10b	-1.1	10	1.42	6	1.29	
8728	RGD1563091	-1.1	48	2.31	30	2.1	
8729	Surf2	-1.1	0	1.72	0	1.56	
8730	Syt5	-1.1	10	1.1	7	0.99	
8731	Tmem5	-1.1	58	3.11	41	2.82	
8732	Zbtb49	-1.1	60	2.86	45	2.6	
8733	Hnrnpab_2	-1.1	0	47.73	0	43.32	
8734	Adrbk1	-1.1	255	26.01	160	23.6	
8735	Zfp592	-1.1	270	8.47	171	7.68	
8736	Ndufs4	-1.1	339	39.42	235	35.77	
8737	Prpf38b	-1.1	201	13.48	133	12.22	
8738	Thada	-1.1	237	4.71	154	4.27	
8739	Prdx3	-1.1	277	44.72	178	40.56	
8740	Slc25a5	-1.1	454	110.46	277	100.17	
8741	Zfp777	-1.1	152	11.16	97	10.12	
8742	Btg1	-1.1	333	57.09	210	51.76	
8743	Homer3	-1.1	145	7.94	80	7.2	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8744	LOC688906	-1.1	454	14.27	295	12.93	
8745	Atxn1	-1.1	239	5.84	165	5.3	
8746	Eny2	-1.1	107	10.34	68	9.37	
8747	Sh3gl1	-1.1	402	41.34	249	37.46	
8748	Srsf4	-1.1	340	16.5	183	14.94	
8749	Tada2a	-1.1	117	8.18	92	7.41	
8750	Ppp1cb	-1.1	551	43.58	347	39.46	
8751	Acap3	-1.1	67	3.41	43	3.09	
8752	Ighmbp2	-1.1	72	4.1	46	3.71	
8753	Trappc6b	-1.1	87	12.84	50	11.62	
8754	Zgpat	-1.1	64	7.7	41	6.97	
8755	Casp7	-1.1	72	6.25	47	5.66	
8756	Hdgfrp3	-1.1	151	7.31	87	6.62	
8757	Smg7	-1.1	371	14.9	234	13.48	
8758	Stx12	-1.11	250	21.02	169	19.02	
8759	Pak2_1	-1.11	357	28.87	205	26.12	
8760	Ebna1bp2	-1.11	1	30.52	1	27.62	
8761	Rbbp5	-1.11	126	6.86	83	6.2	
8762	Rn60_17_0530.1	-1.11	52	17.73	28	16.04	
8763	Pdxdc1	-1.11	236	8.23	204	7.45	
8764	Pmpca	-1.11	196	22.85	135	20.66	
8765	Vps9d1	-1.11	132	8.3	109	7.51	
8766	Hexim1	-1.11	180	21.25	112	19.21	
8767	Mt-nd4l	-1.11	458	790.28	243	714.38	
8768	Leprot	-1.11	31	16.28	24	14.71	
8769	Ndufv2	-1.11	147	35.6	102	32.17	
8770	Pitpnb	-1.11	315	30.31	190	27.4	
8771	Trappc2l	-1.11	59	34.34	40	31.03	
8772	Pebp1	-1.11	667	152.09	418	137.43	
8773	Adam23	-1.11	59	3.21	37	2.9	
8774	Gpt2	-1.11	78	2.77	44	2.5	
8775	Acadl	-1.11	234	30.15	142	27.22	
8776	Lig1	-1.11	44	19.83	15	17.91	
8777	Epb4.1	-1.11	228	9.64	149	8.71	
8778	Ash1l	-1.11	885	15.05	583	13.59	
8779	Mapkapk5	-1.11	183	18.65	109	16.83	
8780	Sel1l	-1.11	757	27.94	466	25.22	
8781	Scaf8	-1.11	420	19.98	266	18.03	
8782	Kntc1	-1.11	140	4.77	90	4.3	
8783	Nat10	-1.11	130	7.68	84	6.93	
8784	Smad7	-1.11	215	8.88	113	8.01	
8785	Ufd1l	-1.11	222	24.74	164	22.32	
8786	Ep400	-1.11	880	18.64	555	16.81	
8787	Aaas	-1.11	117	11.34	80	10.23	
8788	Gcfc2	-1.11	52	2.8	36	2.52	
8789	Gmnn	-1.11	32	6.13	20	5.53	
8790	Gpsm2	-1.11	37	2.79	24	2.52	
8791	Ibtk	-1.11	255	12.48	163	11.26	
8792	Znrf1	-1.11	74	8.34	53	7.53	
8793	Dock7	-1.11	676	20.58	443	18.55	
8794	Chfr	-1.11	173	10.83	129	9.76	
8795	Smurf2	-1.11	295	13.48	173	12.16	
8796	Txnrd1	-1.11	448	25.64	258	23.12	
8797	Pparg	-1.11	384	23.46	244	21.15	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8798	Rexo4	-1.11	138	11.46	86	10.33	
8799	Rbm15b	-1.11	179	16.74	110	15.09	
8800	Bak1	-1.11	236	30.22	156	27.23	
8801	Simc1	-1.11	140	6.53	98	5.88	
8802	Myo18a	-1.11	325	9.48	200	8.54	
8803	Rbbp8	-1.11	214	12.07	146	10.87	
8804	LOC100911372	-1.11	27	334.46	31	301.26	
8805	Slc30a4	-1.11	210	9.45	133	8.5	
8806	Hnrnpm	-1.11	611	52.91	433	47.61	
8807	AC120727.1	-1.11	29	8.27	18	7.44	
8808	Dusp11_2	-1.11	0	4.63	0	4.17	
8809	Sntb2	-1.11	99	6.16	74	5.54	
8810	Specc1l	-1.11	482	15.88	323	14.28	
8811	Twistnb	-1.11	66	4.41	40	3.97	
8812	Dusp12	-1.11	34	4.09	20	3.68	
8813	Paqr3	-1.11	36	2.82	24	2.53	
8814	Snx16	-1.11	39	2.26	25	2.03	
8815	Oaz1	-1.11	1550	541.51	962	487.01	
8816	Mgrn1	-1.11	552	46.9	337	42.17	
8817	Ptprn	-1.11	149	9.58	91	8.62	
8818	Lpcat1	-1.11	123	6.7	73	6.02	
8819	Itfg2	-1.11	72	6.13	47	5.51	
8820	Terf2	-1.11	110	6.91	67	6.21	
8821	Vapb	-1.11	151	27.74	93	24.92	
8822	Whsc1l1	-1.11	391	10.79	259	9.69	
8823	Hn1	-1.11	483	65.53	301	58.86	
8824	Ankrd11	-1.11	1563	38.55	979	34.62	
8825	Wdr45b	-1.11	286	17.37	191	15.59	
8826	Farsb	-1.11	221	21.4	128	19.21	
8827	Gpatch8	-1.11	646	16.86	423	15.13	
8828	Ccdc82	-1.11	47	2.32	36	2.08	
8829	Cep83	-1.11	40	3.15	34	2.83	
8830	Znhit6	-1.11	62	5.43	31	4.87	
8831	G2e3	-1.11	102	3.42	57	3.07	
8832	Ruvbl2	-1.11	161	21.71	109	19.48	
8833	Rnf5	-1.11	14	23.96	17	21.49	
8834	Psma4	-1.11	251	50.36	153	45.18	
8835	Bcl2l13	-1.12	157	18.87	113	16.93	
8836	Brd2	-1.12	44	45.04	35	40.39	
8837	AABR07047262.1	-1.12	13	4.45	5	3.99	
8838	Cep76	-1.12	82	3.48	59	3.12	
8839	Stk39	-1.12	185	6.12	110	5.49	
8840	Ublcp1	-1.12	194	16.91	134	15.16	
8841	Rab11a	-1.12	203	22.14	134	19.85	
8842	Akr1a1	-1.12	1321	253.74	811	227.41	
8843	Lrrc2	-1.12	95	5.41	61	4.85	
8844	Casc3	-1.12	366	20.64	231	18.49	
8845	LOC502894	-1.12	73	5.52	37	4.94	
8846	Plk4	-1.12	68	4.32	41	3.87	
8847	Spred2	-1.12	107	8.82	71	7.9	
8848	Tbc1d19	-1.12	124	7.84	68	7.02	
8849	Ak2	-1.12	224	28.54	190	25.57	
8850	Prrg1	-1.12	191	9.98	127	8.94	
8851	Itpril2	-1.12	86	11.3	53	10.12	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8852	Dsg2	-1.12	424	12.57	277	11.25	
8853	Hectd1	-1.12	929	25.98	594	23.26	
8854	Tsr2	-1.12	89	6.44	51	5.76	
8855	Sdccag3	-1.12	323	25.58	205	22.89	
8856	Tial1	-1.12	178	20.78	120	18.6	
8857	Sumf1	-1.12	168	15.07	107	13.49	
8858	Calm3	-1.12	387	54.22	263	48.51	
8859	Ptprk	-1.12	1064	41.81	775	37.39	
8860	Pa2g4	-1.12	351	55.53	220	49.66	
8861	Adamts3	-1.12	18	0.77	13	0.69	
8862	Adcy3	-1.12	29	0.57	17	0.51	
8863	Commd3	-1.12	112	28.2	68	25.21	
8864	Cox14	-1.12	26	37.23	16	33.29	
8865	Crcp	-1.12	45	4.19	48	3.75	
8866	Enpp1	-1.12	99	5.53	59	4.95	
8867	LOC100360791	-1.12	6	6.24	6	5.58	
8868	Mospd3	-1.12	251	61.36	157	54.87	
8869	Nr2c2ap	-1.12	63	10.64	38	9.52	
8870	Peli2	-1.12	62	2.99	57	2.67	
8871	Prmt6	-1.12	41	3.91	32	3.5	
8872	Tmem87b	-1.12	249	10.52	151	9.41	
8873	Whsc1	-1.12	476	15.92	292	14.23	
8874	Zranb1	-1.12	169	12.82	105	11.47	
8875	Asah2	-1.12	31	1.29	19	1.15	
8876	LOC100911881	-1.12	0	4.84	0	4.33	
8877	Rpp30	-1.12	133	6.76	70	6.04	
8878	Rps14	-1.12	25	130.59	17	116.72	
8879	Sos2	-1.12	372	10.63	284	9.5	
8880	Camsap2	-1.12	445	11.58	258	10.35	
8881	Sugt1	-1.12	176	21.12	118	18.87	
8882	Bop1	-1.12	156	14.88	96	13.29	
8883	Exosc10	-1.12	332	20.37	200	18.2	
8884	RGD1309748	-1.12	517	13.3	323	11.88	
8885	Dcaf12	-1.12	120	15.29	73	13.65	
8886	Sf3a2	-1.12	167	23.72	112	21.18	
8887	Cox6a1	-1.12	113	265.96	167	237.42	
8888	Cacybp	-1.12	149	15.77	90	14.08	
8889	Clns1a	-1.12	167	24.14	98	21.55	
8890	RGD1562310	-1.12	130	6.85	72	6.12	
8891	Vps4b	-1.12	217	17.39	129	15.52	
8892	Ddx49	-1.12	216	27.18	132	24.25	
8893	Mtmr6	-1.12	258	15.3	162	13.66	
8894	Zfp189	-1.12	60	4.79	36	4.27	
8895	Aen	-1.12	125	11.97	74	10.68	
8896	LOC501282	-1.12	134	57.04	86	50.89	
8897	Usp1	-1.12	128	8.03	77	7.16	
8898	Stx6	-1.12	238	21.74	158	19.4	
8899	Ube3c	-1.12	423	19.99	275	17.83	
8900	Cds2	-1.12	153	16.13	97	14.39	
8901	AC106292.2	-1.12	130	28.67	81	25.57	
8902	Knop1_2	-1.12	54	11.34	31	10.11	
8903	Rbms3	-1.12	706	14.71	421	13.11	
8904	Polr1a	-1.12	275	10.4	172	9.27	
8905	Cspp1	-1.12	216	7.01	158	6.25	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8906	Pik3cb	-1.12	92	3.87	56	3.45	
8907	Bms1	-1.12	246	12.52	144	11.15	
8908	Vsig10	-1.12	733	44.27	385	39.43	
8909	Arhgap33	-1.12	35	1.84	19	1.64	
8910	E2f5	-1.12	56	7.62	38	6.78	
8911	Mcat	-1.12	42	4.07	32	3.62	
8912	Snrpc	-1.12	52	21.62	29	19.25	
8913	Zbtb4	-1.12	127	9.57	76	8.52	
8914	Arl1	-1.12	164	37.52	95	33.4	
8915	Bahd1	-1.12	153	8.16	92	7.27	
8916	Lypla2	-1.12	147	23.02	92	20.49	
8917	Trip4	-1.12	200	7.52	138	6.7	
8918	Eif2ak2	-1.12	101	5.06	72	4.5	
8919	LOC103689992	-1.12	309	76.34	197	67.95	
8920	Mam1	-1.12	300	12.56	185	11.18	
8921	Herc2	-1.12	735	10.78	465	9.6	
8922	Hsf1	-1.12	160	10.11	84	9	
8923	Zwilch	-1.12	70	6.82	46	6.06	
8924	Zc3h13	-1.12	364	13.26	231	11.8	
8925	Zfp800	-1.12	137	6.63	75	5.89	
8926	Hdac6_1	-1.12	13	18.63	13	16.56	
8927	Ubr3	-1.12	333	10.99	211	9.77	
8928	Ttf1	-1.12	112	3.47	79	3.09	
8929	Urgcp	-1.12	173	7.89	111	7.01	
8930	Zfand5	-1.12	316	33.19	184	29.51	
8931	Tfdp1	-1.12	291	22.25	173	19.78	
8932	Manf	-1.12	448	129.31	273	114.97	
8933	RGD1562161	-1.12	167	7.89	104	7.01	
8934	Atp5b	-1.13	3743	519.41	2288	461.52	
8935	Sbno1	-1.13	368	15.26	243	13.56	
8936	Synrg	-1.13	268	15.49	159	13.76	
8937	Ccnl2	-1.13	590	28.41	383	25.23	
8938	Ddx56	-1.13	70	13.66	53	12.13	
8939	Hypk	-1.13	28	23	18	20.42	
8940	N6amt2	-1.13	36	2.14	27	1.9	
8941	Plin2	-1.13	219	19.29	138	17.13	
8942	Rgag4	-1.13	36	4.98	22	4.42	
8943	Rpl35a_5	-1.13	0	13.47	0	11.96	
8944	Mrps25	-1.13	53	12.17	37	10.81	
8945	Sde2	-1.13	165	11.13	99	9.89	
8946	Trib2	-1.13	1606	120.58	914	107.08	
8947	Zcchc7	-1.13	316	8.99	230	7.99	
8948	Kcmf1	-1.13	274	36.73	175	32.61	
8949	Bcl9l	-1.13	420	16.14	270	14.33	
8950	Ap1b1	-1.13	305	17.63	180	15.64	
8951	Psmb7	-1.13	426	57.74	266	51.24	
8952	Csnk1e	-1.13	320	22.62	204	20.06	
8953	Srsf11	-1.13	634	38.65	355	34.28	
8954	Hus1	-1.13	89	3.17	59	2.81	
8955	Med19	-1.13	119	11.34	74	10.06	
8956	Rufy1	-1.13	181	9.35	91	8.28	
8957	Tmem135	-1.13	281	14.37	186	12.74	
8958	Ercc6l2	-1.13	234	6.31	178	5.59	
8959	Nrf1	-1.13	219	8.72	124	7.73	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
8960	Ppm1k	-1.13	205	15.06	120	13.34	
8961	Tom20	-1.13	290	63.82	170	56.53	
8962	Kpna6	-1.13	400	20.2	251	17.89	
8963	Fam193a	-1.13	404	18.85	288	16.69	
8964	Azi2	-1.13	191	15.33	130	13.57	
8965	Man1b1	-1.13	696	42.15	408	37.32	
8966	Hspa13	-1.13	311	18.25	190	16.16	
8967	Map2	-1.13	156	4.51	94	4	
8968	Rps3	-1.13	993	333.25	622	294.94	
8969	Ehd1	-1.13	301	22.28	177	19.72	
8970	Cpne3	-1.13	208	16.21	128	14.34	
8971	Lztr1	-1.13	261	20.43	165	18.07	
8972	Magohb	-1.13	24	7.2	20	6.37	
8973	Ppp2r2d	-1.13	170	13.41	99	11.86	
8974	Pqlc2	-1.13	57	2.12	37	1.87	
8975	Spata7	-1.13	74	2.86	56	2.53	
8976	Tyw5	-1.13	39	3.89	28	3.44	
8977	Hnrpd	-1.13	374	48.66	231	43.02	
8978	Usp42	-1.13	178	7.19	100	6.36	
8979	Lyst	-1.13	195	3.91	113	3.46	
8980	Cttn_1	-1.13	0	21.55	0	19.05	
8981	Snx3	-1.13	353	66.47	209	58.76	
8982	Arrdc1	-1.13	130	15.32	74	13.54	
8983	Ndufb2	-1.13	106	53	67	46.85	
8984	Lrrc47	-1.13	301	23.08	190	20.4	
8985	Spen	-1.13	557	10.63	331	9.4	
8986	Ccdc94_1	-1.13	61	8.92	38	7.88	
8987	Mafg	-1.13	212	19.48	148	17.21	
8988	Atp5c1	-1.13	666	18.66	431	16.48	
8989	Wdr70	-1.13	110	5.95	90	5.26	
8990	Slit2	-1.13	160	4.23	102	3.73	
8991	Arse	-1.13	87	10.72	65	9.47	
8992	Brf2	-1.13	102	10.68	58	9.43	
8993	Kdm7a	-1.13	89	7.56	65	6.67	
8994	Bcl2l2	-1.13	197	13.17	120	11.62	
8995	Tex15	-1.13	496	12.32	326	10.88	
8996	Actr1a	-1.13	731	59.61	436	52.6	
8997	Mttr3	-1.13	690	22.14	428	19.53	
8998	Inpp1	-1.13	52	3.3	43	2.91	
8999	Nck1	-1.13	94	8	58	7.06	
9000	Rps25	-1.13	141	375.41	152	331.17	
9001	Fyttd1	-1.13	187	28.81	109	25.4	
9002	Erc1	-1.13	446	10.32	289	9.09	
9003	Tmed7	-1.13	555	38.73	326	34.15	
9004	RGD1311595	-1.13	197	5.17	124	4.56	
9005	Mvd	-1.13	165	22.76	99	20.06	
9006	Isca2	-1.13	60	29.24	42	25.77	
9007	Plod2	-1.14	6880	445.88	4175	392.73	
9008	Atg16l2	-1.14	44	3.92	35	3.45	
9009	Ireb2	-1.14	288	17.02	182	14.99	
9010	Mad2l1bp	-1.14	37	4.44	20	3.91	
9011	Tmem168	-1.14	144	15.71	88	13.83	
9012	Nek9	-1.14	488	38.49	298	33.89	
9013	Chm	-1.14	85	5.06	55	4.45	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9014	Mrps14	-1.14	86	10.3	47	9.07	
9015	Ckap4	-1.14	1032	99.84	617	87.82	
9016	AABR07063855.1	-1.14	22	5.19	10	4.57	
9017	Tmem41b	-1.14	95	8.03	67	7.07	
9018	Nae1	-1.14	112	11.34	73	9.97	
9019	Stau2	-1.14	114	6.98	80	6.13	
9020	Lypla1	-1.14	275	21.69	158	19.06	
9021	Rad18	-1.14	66	4.34	34	3.82	
9022	Nme6	-1.14	51	6.57	35	5.78	
9023	Rnaseh2b	-1.14	53	7.55	45	6.63	
9024	Zfp449	-1.14	47	2.74	30	2.41	
9025	Iqsec2	-1.14	167	5.12	100	4.49	
9026	Mrpl20	-1.14	106	31.52	70	27.67	
9027	Thap7	-1.14	65	6	38	5.27	
9028	Dmxl1	-1.14	299	6.74	198	5.92	
9029	Paics	-1.14	142	31.08	78	27.28	
9030	Eif3e	-1.14	135	48.42	111	42.48	
9031	Aup1	-1.14	232	37.12	148	32.57	
9032	Hnrnp2	-1.14	221	33.54	135	29.43	
9033	RGD1310081	-1.14	145	3.35	81	2.94	
9034	Leng8	-1.14	630	27.63	386	24.23	
9035	Ints12	-1.14	59	8.05	35	7.06	
9036	Kdm1b	-1.14	70	3.44	53	3.02	
9037	LOC100360647	-1.14	98	208.65	70	182.93	
9038	Bptf	-1.14	673	15.09	438	13.23	
9039	Thumpd1	-1.14	133	14.4	80	12.62	
9040	0610010F05Rik	-1.14	194	6.66	93	5.84	
9041	LOC100362142	-1.14	385	68.48	239	60	
9042	Psm5	-1.14	239	51.61	145	45.21	
9043	LOC100363012	-1.14	82	102.43	53	89.73	
9044	Atp5f1_1	-1.14	0	17.63	0	15.44	
9045	Zbtb34	-1.14	167	5.97	101	5.23	
9046	Naa20	-1.14	133	14.88	103	13.03	
9047	Rufy3	-1.14	121	5.33	93	4.67	
9048	Klhl9	-1.14	443	28.76	274	25.18	
9049	Zfp1	-1.14	95	10.64	57	9.32	
9050	Prdx1	-1.14	261	205.72	169	180.02	
9051	Psm2	-1.14	383	107.48	224	94.04	
9052	Hiat1_1	-1.14	49	27.65	38	24.18	
9053	RGD1563242	-1.14	99	12.73	58	11.14	
9054	Tgfb1	-1.14	133	14.32	76	12.52	
9055	Rnf14	-1.14	435	21.31	232	18.63	
9056	Tia1	-1.14	201	17.52	201	15.32	
9057	Dctn4	-1.14	303	39.32	192	34.37	
9058	Fkbp15	-1.14	186	9.11	107	7.96	
9059	Fbxw2	-1.14	248	18.25	166	15.95	
9060	Dnajc8	-1.14	189	26.24	116	22.92	
9061	Ran	-1.14	887	206.51	534	180.38	
9062	Vimp	-1.14	231	40.73	132	35.58	
9063	Eif4h	-1.15	949	82.41	562	71.87	
9064	AABR07019083.1	-1.15	16	4.9	9	4.28	
9065	AABR07021501.1	-1.15	36	5.6	14	4.88	
9066	AABR07060133.1	-1.15	44	1.01	34	0.88	
9067	Arglu1	-1.15	293	24.66	209	21.5	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9068	Cenpo	-1.15	10	2.13	6	1.86	
9069	Ebpl	-1.15	6	1.11	3	0.97	
9070	Ggt7	-1.15	93	7.01	51	6.11	
9071	Ica1	-1.15	87	4.44	48	3.87	
9072	RGD1560394	-1.15	5	1.87	3	1.63	
9073	Slc4a1ap	-1.15	93	5.82	66	5.08	
9074	AABR07002910.1	-1.15	5	0.39	3	0.34	
9075	AABR07030529.1	-1.15	5	8.59	3	7.49	
9076	AABR07044935.1	-1.15	0	0.69	0	0.6	
9077	AABR07061336.1	-1.15	0	2.36	0	2.06	
9078	AABR07071904.1	-1.15	5	0.36	3	0.31	
9079	Arhgap20	-1.15	7	0.18	3	0.15	
9080	Arx	-1.15	6	0.44	3	0.38	
9081	Cnih1	-1.15	275	44.96	160	39.2	
9082	Cope	-1.15	323	64.66	200	56.38	
9083	Cracr2b_1	-1.15	0	0.78	0	0.68	
9084	Cth	-1.15	4	1.37	2	1.19	
9085	Efna5	-1.15	64	3.74	21	3.26	
9086	Etfa	-1.15	236	33.25	151	28.99	
9087	Fam186a	-1.15	19	0.23	13	0.2	
9088	Fam81a	-1.15	5	0.32	7	0.28	
9089	Gprc5c	-1.15	5	0.27	5	0.24	
9090	Gpx1	-1.15	120	32.82	70	28.62	
9091	Ikbkg	-1.15	53	6.87	27	5.99	
9092	Ispd	-1.15	32	0.85	40	0.74	
9093	Knstrn	-1.15	30	3.22	16	2.8	
9094	LOC100359825	-1.15	1	11.22	1	9.79	
9095	LOC100360150	-1.15	5	4.04	3	3.52	
9096	Mageb7	-1.15	4	1.16	2	1.01	
9097	Mast2	-1.15	683	24.07	413	20.99	
9098	Micu3	-1.15	53	2	30	1.75	
9099	Mplkip	-1.15	57	6.18	43	5.39	
9100	Mpped2	-1.15	213	7.43	100	6.48	
9101	Nup107	-1.15	111	7.24	70	6.32	
9102	Ooep	-1.15	5	1.53	3	1.33	
9103	Pcdhb13	-1.15	5	0.52	3	0.45	
9104	Pcdhga11	-1.15	25	2.57	15	2.24	
9105	Piwil2	-1.15	12	0.24	14	0.21	
9106	Pla2g15	-1.15	74	6.4	48	5.58	
9107	Plgrkt	-1.15	26	4.87	20	4.24	
9108	Pou3f4	-1.15	5	0.97	3	0.85	
9109	Ppih	-1.15	17	8.61	7	7.5	
9110	Rab11fip2	-1.15	31	3.09	30	2.69	
9111	Rbm33	-1.15	283	15.35	172	13.38	
9112	Rbp1	-1.15	8	1.79	4	1.56	
9113	RGD1304624	-1.15	38	1.12	42	0.98	
9114	RGD1561590	-1.15	70	57.45	51	50.09	
9115	Ric8b	-1.15	175	6.48	146	5.65	
9116	Rufy2	-1.15	1	2.06	1	1.79	
9117	SCARNA18_2	-1.15	5	15.77	3	13.75	
9118	Shisa8	-1.15	5	0.66	4	0.57	
9119	Srr	-1.15	134	11.04	109	9.63	
9120	Susd2	-1.15	5	0.38	3	0.33	
9121	Ulk3	-1.15	42	5.04	23	4.4	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9122	Usf1	-1.15	217	28.89	126	25.19	
9123	Wfdc1	-1.15	5	0.99	4	0.86	
9124	Zfp672	-1.15	95	7.68	63	6.69	
9125	Zfr2	-1.15	64	1.86	39	1.62	
9126	Zhx1	-1.15	9	2.48	5	2.16	
9127	Mon1a	-1.15	81	4.8	41	4.18	
9128	Pds5a	-1.15	456	19.81	303	17.25	
9129	Psma1	-1.15	352	71.52	214	62.3	
9130	Rpn2	-1.15	1335	124.49	794	108.37	
9131	Srpk1	-1.15	267	23.04	175	20.05	
9132	Zdhhc5	-1.15	383	32.92	225	28.65	
9133	Atf1	-1.15	259	17.75	160	15.44	
9134	Nabp2	-1.15	116	20.06	78	17.44	
9135	Usp14	-1.15	280	25.91	175	22.52	
9136	Adam19	-1.15	131	4.24	77	3.69	
9137	Sec63	-1.15	496	17.91	302	15.57	
9138	Tmx3	-1.15	125	18.42	78	16	
9139	Zfp236	-1.15	229	8.04	136	6.99	
9140	Vprbp	-1.15	334	11.9	203	10.34	
9141	Stag1	-1.15	451	10.43	279	9.06	
9142	Ddx51	-1.15	92	7.51	59	6.52	
9143	Sh2b3	-1.15	154	4.73	90	4.11	
9144	Sh3bp5	-1.15	112	8.01	81	6.95	
9145	Lysmd3	-1.15	82	6.07	47	5.27	
9146	Eif2ak4	-1.15	256	6	180	5.2	
9147	LOC100359539	-1.15	146	19.8	101	17.17	
9148	Ndufb10	-1.15	131	47.06	78	40.82	
9149	Rab7a	-1.15	654	78.43	389	68.01	
9150	Rhoc	-1.15	257	34.78	155	30.15	
9151	Ofd1	-1.15	76	4	45	3.47	
9152	Eif1ax	-1.15	304	21.49	180	18.62	
9153	Raly	-1.15	871	123.62	523	107.13	
9154	Zbtb11	-1.15	163	5.56	80	4.82	
9155	Flywch1	-1.15	210	12.13	146	10.51	
9156	Klhdc2	-1.15	167	32.85	97	28.47	
9157	Me3	-1.15	348	18.52	146	16.04	
9158	Tnrc6a	-1.15	825	20.53	506	17.78	
9159	Rsrc2	-1.15	228	17.18	121	14.88	
9160	Cops7b	-1.16	87	9.38	53	8.12	
9161	Exoc5	-1.16	230	10.82	139	9.37	
9162	Trps1	-1.16	82	2.56	53	2.21	
9163	B2m	-1.16	542	72.83	319	63.02	
9164	Hax1	-1.16	93	19.87	54	17.2	
9165	Arhgap23	-1.16	412	14.64	253	12.66	
9166	Entpd7_2	-1.16	47	8.71	26	7.53	
9167	Exd2	-1.16	138	8.79	80	7.61	
9168	Gtse1	-1.16	104	7.91	58	6.84	
9169	N4bp2	-1.16	149	6.01	91	5.19	
9170	Sdr39u1	-1.16	64	7.14	42	6.18	
9171	Tada1	-1.16	113	8.73	64	7.55	
9172	Mrpl10	-1.16	89	11.31	51	9.77	
9173	Ywhae	-1.16	1931	263.65	1175	227.91	
9174	Wwp2	-1.16	142	11.6	96	10.03	
9175	Rnf6	-1.16	172	19.02	99	16.44	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9176	Zswim3	-1.16	59	3.43	37	2.96	
9177	AABR07065406.1	-1.16	26	8.55	19	7.39	
9178	Stradb	-1.16	101	7.84	64	6.78	
9179	Zfp518b	-1.16	106	7.28	63	6.28	
9180	Tarbp2	-1.16	85	11.7	54	10.11	
9181	Ppp3cc	-1.16	316	17.99	205	15.53	
9182	Tram1	-1.16	686	53.19	440	45.91	
9183	Atl3	-1.16	222	19.73	145	17.02	
9184	Edem1	-1.16	347	27.2	201	23.47	
9185	Adamts10	-1.16	804	32.76	431	28.26	
9186	Cln8	-1.16	71	7.18	44	6.19	
9187	Irf2bpl	-1.16	122	13.05	73	11.25	
9188	Alg9	-1.16	174	11.8	96	10.18	
9189	Riok2	-1.16	134	14.15	80	12.2	
9190	Atp8b2	-1.16	1021	43.54	587	37.54	
9191	Ap2b1	-1.16	801	48.86	519	42.13	
9192	Acsl3	-1.16	158	13.48	94	11.62	
9193	Rbm12_1	-1.16	36	15.46	24	13.33	
9194	Gpalpp1	-1.16	73	9.87	44	8.5	
9195	Uba3	-1.16	336	33.95	196	29.27	
9196	Zfp142	-1.16	308	8.96	190	7.72	
9197	Pbx1	-1.16	474	46.15	315	39.77	
9198	Copb2	-1.16	442	46.17	263	39.79	
9199	Yy1	-1.16	309	36.73	186	31.66	
9200	Cdkn2aip	-1.16	91	9.51	53	8.19	
9201	Syap1	-1.16	247	18.88	148	16.27	
9202	ldh2	-1.16	503	51.89	320	44.71	
9203	LOC100911363	-1.16	0	84.76	0	73.01	
9204	Cse1l	-1.16	410	26.62	248	22.93	
9205	Dph7	-1.16	53	4.67	39	4.02	
9206	Cep85l	-1.16	41	2.11	34	1.82	
9207	Elovl4	-1.16	30	2.19	17	1.88	
9208	Fam213a	-1.16	31	4.28	21	3.68	
9209	ldh3B	-1.16	233	35.74	136	30.77	
9210	Invs	-1.16	50	1.98	40	1.71	
9211	Micalcl	-1.16	35	2.03	23	1.74	
9212	Slc4a4	-1.16	61	1.46	31	1.25	
9213	Morc3	-1.16	309	10.88	210	9.36	
9214	Snx6	-1.16	206	20.23	137	17.41	
9215	Mms19	-1.16	172	9.33	113	8.03	
9216	Wrn	-1.16	178	7.01	127	6.04	
9217	Fnta	-1.16	209	26.52	126	22.82	
9218	Dhx33	-1.16	81	6.97	47	6	
9219	RGD1305455	-1.16	65	2.91	41	2.5	
9220	Polr2f	-1.16	76	30.2	45	25.99	
9221	RGD1305464	-1.16	131	7.78	81	6.69	
9222	Trim36	-1.16	66	4.33	44	3.73	
9223	Ube2j2	-1.16	223	20.35	153	17.5	
9224	Kif3c	-1.16	83	5.17	62	4.45	
9225	Tfpi	-1.16	175	9.14	111	7.86	
9226	LOC100910454	-1.16	551	35.07	317	30.14	
9227	Gnas_2	-1.16	1377	119.26	864	102.48	
9228	G3bp1	-1.16	893	32.76	537	28.14	
9229	Nedd1	-1.16	82	4.26	54	3.66	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9230	Tipin1	-1.16	30	9.31	21	7.99	
9231	AC094643.2	-1.16	44	12.26	26	10.53	
9232	Ccdc25	-1.16	76	7.67	47	6.59	
9233	Glrx2	-1.16	32	11.56	21	9.93	
9234	Manea	-1.16	226	12.12	129	10.4	
9235	Pla2g4a	-1.16	32	1.62	19	1.39	
9236	Rasl11a	-1.16	116	21.5	69	18.46	
9237	Smc1a	-1.16	411	22.25	278	19.1	
9238	Trdmt1	-1.16	46	2.72	30	2.33	
9239	Usp43	-1.16	29	1.76	20	1.51	
9240	Soat1	-1.17	680	76.97	413	66.03	
9241	Kdm1a	-1.17	469	32	280	27.45	
9242	RGD1308106	-1.17	285	14.36	177	12.32	
9243	Ifih1	-1.17	65	3.9	37	3.34	
9244	Tmem9b	-1.17	92	5.61	71	4.82	
9245	Xrcc6	-1.17	119	6.9	84	5.92	
9246	Psmc5	-1.17	229	42.95	139	36.83	
9247	RGD1564887	-1.17	100	7.79	83	6.68	
9248	Slc27a4	-1.17	232	17.63	136	15.11	
9249	Dhx15	-1.17	492	45.66	318	39.13	
9250	Dgke	-1.17	57	3.19	36	2.73	
9251	Emb	-1.17	41	9.12	27	7.81	
9252	Mxra7	-1.17	246	17.48	147	14.98	
9253	Pold2	-1.17	41	5.74	24	4.92	
9254	Polr3h	-1.17	128	24.09	84	20.65	
9255	Smarcc1	-1.17	568	30.31	387	25.98	
9256	Tdp1	-1.17	49	3.78	30	3.24	
9257	Terf2ip	-1.17	86	8.81	51	7.55	
9258	Ubap2l	-1.17	1085	52.72	648	45.17	
9259	Rpsa	-1.17	2052	633.33	1240	542.57	
9260	Rcan1	-1.17	109	10.98	66	9.4	
9261	Dusp7	-1.17	60	4.47	35	3.82	
9262	Rhot1	-1.17	341	7.89	222	6.75	
9263	Mad11l	-1.17	114	6.96	96	5.96	
9264	Tmtc3	-1.17	214	8.08	133	6.91	
9265	Ndufb6	-1.17	101	42.39	58	36.26	
9266	Ythdf3	-1.17	491	23.36	276	19.98	
9267	Egln2	-1.17	261	21.94	168	18.77	
9268	Adamts6	-1.17	114	2.41	47	2.06	
9269	AABR07057196.1	-1.17	9	2.8	5	2.39	
9270	Ank2	-1.17	64	0.68	38	0.58	
9271	Atxn7	-1.17	112	6.05	78	5.17	
9272	Etfb	-1.17	42	9.33	29	7.98	
9273	Sec13	-1.17	205	36.78	123	31.43	
9274	Zfp664	-1.17	16	16.17	9	13.82	
9275	Wdr53	-1.17	25	2.9	16	2.48	
9276	Srebf2	-1.17	1445	62.2	836	53.14	
9277	Gak	-1.17	400	20.09	234	17.16	
9278	Cep350	-1.17	215	4.77	131	4.07	
9279	Nup98	-1.17	669	21.5	420	18.35	
9280	Mrps7	-1.17	67	19.99	44	17.07	
9281	Dctn5	-1.17	108	12.09	60	10.32	
9282	LOC100910429	-1.17	242	10.52	153	8.98	
9283	Gars	-1.17	871	85.44	522	72.93	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9284	Wdr83os	-1.17	149	51.56	87	44.01	
9285	Gnai2	-1.17	1830	198.95	1048	169.78	
9286	Dnajb1	-1.17	235	26.09	136	22.27	
9287	Sgce	-1.17	233	29.67	138	25.31	
9288	Tusc3	-1.17	222	21.06	147	17.96	
9289	Dlg1	-1.17	332	14.53	244	12.39	
9290	Pura	-1.17	75	21.55	42	18.37	
9291	Cdk10	-1.17	138	11.82	81	10.07	
9292	Pcdh18	-1.17	108	5	67	4.27	
9293	Fnbp4	-1.17	464	18.27	281	15.57	
9294	Cpq	-1.17	236	18.94	133	16.13	
9295	Gins4	-1.17	43	6.85	26	5.83	
9296	Josd2	-1.17	33	8.5	23	7.24	
9297	Mllt1	-1.17	300	17.48	175	14.89	
9298	Mmab	-1.17	42	2.28	18	1.94	
9299	Ubald2	-1.17	35	14.69	16	12.51	
9300	Zfp35	-1.17	62	5.14	33	4.38	
9301	Lmln	-1.17	87	3.3	49	2.81	
9302	Rabgap1l	-1.17	150	3.88	104	3.31	
9303	Trmt12	-1.17	29	4.45	17	3.79	
9304	Pbrm1	-1.17	538	20.68	343	17.62	
9305	Ddx46	-1.17	403	22.48	258	19.14	
9306	Twf1	-1.17	251	25.75	163	21.92	
9307	RGD1560175	-1.17	150	4.87	83	4.15	
9308	Smdt1	-1.17	75	53.83	41	45.82	
9309	Ift20	-1.18	118	24.56	67	20.9	
9310	LOC688963	-1.18	57	45	48	38.28	
9311	Pard3b	-1.18	168	2.83	125	2.41	
9312	Cenpn	-1.18	82	3.71	48	3.16	
9313	Limch1	-1.18	75	2.61	51	2.22	
9314	Gabarap	-1.18	466	140.35	275	119.37	
9315	Chmp5	-1.18	177	27.75	101	23.59	
9316	E2f1	-1.18	91	2.93	92	2.49	
9317	Rab11fip5	-1.18	288	13.48	155	11.46	
9318	Zfp26	-1.18	113	7.69	65	6.54	
9319	Actl6a	-1.18	245	18.37	153	15.62	
9320	Tp53bp2	-1.18	177	9.34	109	7.94	
9321	Psmd4	-1.18	382	58.56	226	49.77	
9322	Emd	-1.18	181	28.87	107	24.53	
9323	Pkp4	-1.18	147	6.66	86	5.66	
9324	Wdr35	-1.18	139	7.01	79	5.96	
9325	Htra1	-1.18	706	78.77	390	66.92	
9326	Sfxn1	-1.18	199	13.78	112	11.7	
9327	Ubr1	-1.18	256	11.12	159	9.44	
9328	Zc3hc1	-1.18	110	12.16	70	10.32	
9329	Srsf10	-1.18	189	23.62	150	20.05	
9330	Dennd5a	-1.18	849	39.99	484	33.94	
9331	Akirin2	-1.18	173	24.87	116	21.1	
9332	Hk2	-1.18	199	8.49	120	7.2	
9333	Caprin1	-1.18	1427	91.32	857	77.45	
9334	Taok2	-1.18	480	17.8	314	15.09	
9335	Asf1b	-1.18	24	3.77	15	3.2	
9336	Dynlt3	-1.18	72	8.36	43	7.09	
9337	Fbxl3	-1.18	179	10.04	104	8.51	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9338	Imp3	-1.18	36	6.22	21	5.27	
9339	Polk	-1.18	38	1.57	25	1.33	
9340	Rabl3	-1.18	47	4.57	26	3.88	
9341	Traip	-1.18	31	2.72	20	2.31	
9342	Lpgat1	-1.18	102	6.36	61	5.39	
9343	Mrpl46	-1.18	48	5.67	29	4.8	
9344	Pbk	-1.18	25	3.27	18	2.77	
9345	Ppp1r3d	-1.18	12	0.97	7	0.83	
9346	Ptpdc1	-1.18	19	0.89	13	0.75	
9347	Rab26	-1.18	16	1.29	8	1.09	
9348	Smad2	-1.18	291	16.49	171	13.97	
9349	Uchl5	-1.18	101	4.26	53	3.61	
9350	Setd5	-1.18	1322	34.29	730	29.07	
9351	Ssrp1	-1.18	866	70.44	515	59.7	
9352	Efemp2	-1.18	536	77.14	314	65.37	
9353	Cdv3	-1.18	207	33.64	130	28.49	
9354	Micu2	-1.18	424	21.11	289	17.88	
9355	Vamp3	-1.18	334	41.7	188	35.31	
9356	Uba2	-1.18	111	35.4	82	29.97	
9357	Git2	-1.18	445	24.65	271	20.87	
9358	Cmtm6	-1.18	380	27.87	219	23.59	
9359	LOC100910568	-1.18	251	3.38	152	2.86	
9360	Papd7	-1.18	262	14.68	139	12.42	
9361	Tjp1	-1.18	796	27.05	459	22.87	
9362	Polh	-1.18	83	4.31	43	3.64	
9363	Tmem134	-1.18	124	30.15	86	25.49	
9364	Mrpl23	-1.18	116	45.22	72	38.22	
9365	Aspm	-1.18	94	2.2	50	1.86	
9366	Rbm41	-1.18	73	1.92	47	1.62	
9367	Rps6kb2	-1.18	53	6.02	28	5.08	
9368	Ndufb3	-1.18	34	15.07	26	12.73	
9369	Map1lc3a	-1.18	375	96.43	221	81.46	
9370	Fanci	-1.18	135	4.61	92	3.89	
9371	Nf1	-1.18	650	11.54	377	9.74	
9372	Cipc	-1.18	204	11.19	120	9.45	
9373	Psmb5	-1.18	353	102.18	194	86.27	
9374	Arfgap1	-1.18	258	27.73	156	23.41	
9375	Gmeb1	-1.18	162	7.31	97	6.17	
9376	Ankle2	-1.19	384	15.11	244	12.75	
9377	Cd24	-1.19	51	8.37	28	7.06	
9378	Dcaf17	-1.19	39	3.85	34	3.25	
9379	Ypel4	-1.19	46	2.29	24	1.94	
9380	Arhgap5	-1.19	461	20.94	280	17.67	
9381	Tmem194b	-1.19	103	6.12	61	5.16	
9382	Snx27	-1.19	387	13.06	212	11.01	
9383	Zbtb38	-1.19	131	8.15	76	6.87	
9384	Tubb4b	-1.19	891	139.79	519	117.83	
9385	Gdap2	-1.19	63	4.59	39	3.87	
9386	Mad2l2	-1.19	59	8.28	36	6.98	
9387	Stxbp1	-1.19	151	10.36	91	8.73	
9388	Alg13	-1.19	63	2.24	36	1.89	
9389	Eif4e	-1.19	289	28.04	164	23.63	
9390	Ppp1r2	-1.19	262	29.95	150	25.24	
9391	Gmip	-1.19	83	4.4	51	3.7	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9392	Eif4a1	-1.19	2023	372.06	1201	313.18	
9393	Eif5a	-1.19	2030	435.26	1172	366.3	
9394	Abhd10_1	-1.19	0	3.53	0	2.97	
9395	Mrps18c	-1.19	41	11.7	23	9.85	
9396	Rab21	-1.19	115	15.96	64	13.43	
9397	Klhl36	-1.19	25	1.83	20	1.54	
9398	Mboat1	-1.19	101	4.98	62	4.19	
9399	Med28	-1.19	103	11.33	59	9.53	
9400	Plekha1	-1.19	168	7.97	98	6.7	
9401	Cdc73	-1.19	138	12.28	86	10.32	
9402	Fbxw8	-1.19	340	14.22	211	11.95	
9403	Usp53	-1.19	132	4.45	79	3.73	
9404	Zwint	-1.19	629	71.58	343	60.11	
9405	Rpl31	-1.19	80	121.75	43	102.23	
9406	Adamts1	-1.19	771	43.32	440	36.37	
9407	Ssh2	-1.19	68	1.77	41	1.48	
9408	Polr3e	-1.19	157	9.61	84	8.07	
9409	Cdca4	-1.19	234	20.97	125	17.59	
9410	Rps6kb1	-1.19	168	10.6	96	8.89	
9411	LOC679811	-1.19	504	17.21	246	14.43	
9412	Sec24c	-1.19	634	33.95	372	28.48	
9413	Rac1	-1.19	630	128.56	350	107.79	
9414	Hspbap1	-1.19	161	4.38	112	3.67	
9415	Ankra2	-1.19	0	3.34	0	2.8	
9416	Ccdc93	-1.19	61	5.45	44	4.57	
9417	Fadd	-1.19	27	4.88	15	4.09	
9418	Mrps18a	-1.19	48	21.67	30	18.16	
9419	Rpo1-3	-1.19	167	13.64	126	11.43	
9420	Sumo2l	-1.19	19	6.52	10	5.46	
9421	Traf3ip1	-1.19	64	2.68	44	2.25	
9422	Wdr20	-1.19	203	4.61	118	3.86	
9423	Dopey2	-1.19	206	5.35	124	4.48	
9424	Srp68	-1.19	361	25.12	223	21.05	
9425	Psmb6	-1.19	23	86.18	14	72.21	
9426	Snrpb2	-1.19	121	26.85	73	22.5	
9427	Thop1	-1.19	88	8.51	50	7.13	
9428	Eif4enif1	-1.19	245	16.22	148	13.58	
9429	Ube3a	-1.19	314	9.79	197	8.2	
9430	Csnk1g2	-1.19	571	50.97	322	42.67	
9431	Fkbp11	-1.19	928	47.26	522	39.57	
9432	Ppp4r2	-1.19	368	15.33	216	12.83	
9433	Rhbf1	-1.19	291	21.25	161	17.79	
9434	Dnajb11	-1.2	291	37.5	168	31.38	
9435	Hspa9	-1.2	576	71.3	330	59.66	
9436	Ccdc130	-1.2	53	4.96	40	4.15	
9437	Dbr1	-1.2	79	7.01	44	5.86	
9438	Hmbox1	-1.2	366	12.68	232	10.61	
9439	Mettl4	-1.2	36	2.3	22	1.92	
9440	Rdh10	-1.2	50	2.79	27	2.34	
9441	RGD1311863	-1.2	58	6.05	42	5.06	
9442	Rora	-1.2	77	4.87	66	4.07	
9443	Taf7	-1.2	34	4.66	19	3.9	
9444	Sec11a	-1.2	262	43.98	143	36.78	
9445	Eif3a	-1.2	1162	55.08	679	46.06	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9446	Zfp382	-1.2	155	2.87	74	2.4	
9447	LOC500028	-1.2	135	10.6	76	8.86	
9448	Plxnb2	-1.2	2851	107.96	1636	90.23	
9449	Ankrd27	-1.2	268	11.19	154	9.35	
9450	AABR07002120.1	-1.2	10	6.75	4	5.64	
9451	Ksr1	-1.2	115	4.78	88	3.99	
9452	Tmem138	-1.2	52	6.4	27	5.35	
9453	Eef1a1	-1.2	2639	2297.38	1825	1919.04	
9454	Gopc	-1.2	118	7.46	71	6.23	
9455	Lcor	-1.2	365	3.64	198	3.04	
9456	Frmf3	-1.2	229	5.78	230	4.83	
9457	Ruvbl1	-1.2	115	21.45	94	17.9	
9458	Odc1	-1.2	710	47.9	410	39.98	
9459	Nhp211	-1.2	22	22.35	7	18.64	
9460	Rtcd1	-1.2	202	26.09	123	21.77	
9461	Atp5j	-1.2	89	48.24	50	40.23	
9462	Tubb5	-1.2	5361	622.57	3077	519.09	
9463	Cep57	-1.2	88	6.08	52	5.07	
9464	LOC690422	-1.2	66	2.68	40	2.24	
9465	Mettl13	-1.2	74	4.22	46	3.52	
9466	RGD1562136	-1.2	148	11.77	85	9.81	
9467	Sub1	-1.2	123	42.52	66	35.44	
9468	Khdrbs1	-1.2	639	55.5	362	46.26	
9469	Lrrtm3	-1.2	441	2.21	105	1.84	
9470	Mrps22	-1.2	101	13.67	66	11.4	
9471	Dido1	-1.2	523	12.61	304	10.51	
9472	Btaf1	-1.2	355	8.82	201	7.35	
9473	Plekho2	-1.2	99	10.48	57	8.73	
9474	Sft2d2	-1.2	532	24.23	302	20.18	
9475	AABR07065438.1	-1.2	35	69.51	21	57.88	
9476	AABR07033564.1	-1.2	67	4.06	33	3.38	
9477	Esco1	-1.2	153	7.06	115	5.88	
9478	Lmbrd2	-1.2	125	8.19	70	6.81	
9479	Rhobtb3	-1.2	204	7.68	115	6.39	
9480	Wasf2	-1.2	194	14.5	122	12.06	
9481	Numb	-1.2	266	21.04	143	17.5	
9482	Slx4	-1.2	306	10.09	180	8.39	
9483	AABR07062129.1	-1.2	6	2.45	3	2.04	
9484	AABR07012054.1	-1.2	7	2.15	4	1.79	
9485	AABR07062154.1	-1.2	3	1.11	2	0.92	
9486	AABR07071395.1	-1.2	7	0.9	4	0.75	
9487	Aimp2	-1.2	123	17.81	76	14.79	
9488	Brox	-1.2	308	19.32	172	16.04	
9489	Cep295	-1.2	148	2.73	89	2.26	
9490	Ebp	-1.2	70	13.24	38	10.99	
9491	Egfl7	-1.2	8	1.2	7	0.99	
9492	Fam46b	-1.2	7	0.69	4	0.57	
9493	Haghl	-1.2	8	1.38	5	1.15	
9494	Itga7	-1.2	7	0.34	5	0.29	
9495	LOC100361139	-1.2	88	50.68	49	42.08	
9496	LOC683844	-1.2	0	3.75	0	3.11	
9497	Lym2	-1.2	35	5.63	20	4.68	
9498	Ncf2	-1.2	13	0.92	8	0.76	
9499	Pcdhga2	-1.2	15	1.44	9	1.19	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9500	Pdk4	-1.2	23	3.33	12	2.76	
9501	Rab7b	-1.2	78	6.08	45	5.05	
9502	RGD1359158	-1.2	55	6.47	43	5.37	
9503	Slc39a13	-1.2	99	9.41	52	7.81	
9504	Adra1d	-1.2	10	0.59	4	0.49	
9505	Aldoc	-1.2	28	4.14	16	3.44	
9506	Ccdc116	-1.2	8	0.89	5	0.74	
9507	Crb2	-1.2	7	0.45	5	0.38	
9508	Dhrs13	-1.2	37	7.84	21	6.51	
9509	Espl1	-1.2	67	2.55	38	2.12	
9510	Fam83d	-1.2	33	3.1	17	2.57	
9511	Gmppb	-1.2	83	10.88	49	9.04	
9512	Krr1	-1.2	68	9.47	47	7.86	
9513	LOC100912195	-1.2	43	14.76	24	12.26	
9514	Mrps35	-1.2	61	5.46	34	4.53	
9515	Oas1k	-1.2	9	0.34	7	0.28	
9516	Ppl	-1.2	18	0.56	10	0.46	
9517	Rnft2	-1.2	36	1.25	17	1.04	
9518	Rpl35a_2	-1.2	0	10.48	0	8.7	
9519	Rpl39_4	-1.2	0	11.18	0	9.28	
9520	Rpl39_6	-1.2	0	11.18	0	9.28	
9521	Tsen2	-1.2	64	2.46	52	2.05	
9522	Sdhb	-1.21	463	91.28	264	75.74	
9523	Banf1	-1.21	184	64.66	108	53.62	
9524	Sart3	-1.21	210	10.28	130	8.52	
9525	Dag1	-1.21	10242	493.52	5826	408.79	
9526	Nasp	-1.21	271	18.73	146	15.51	
9527	Slc20a2	-1.21	209	5.75	168	4.76	
9528	Saraf	-1.21	413	53.14	238	43.99	
9529	Chuk	-1.21	197	9.18	125	7.6	
9530	Kif1b	-1.21	1375	16.26	826	13.46	
9531	Ndufaf3	-1.21	67	9.83	38	8.13	
9532	Rsf1	-1.21	265	10.92	168	9.03	
9533	Zfp207	-1.21	611	80.3	340	66.41	
9534	Hdgfrp2	-1.21	281	24.94	163	20.62	
9535	RGD1311847	-1.21	80	6.28	52	5.19	
9536	Eif3i-ps1	-1.21	204	56.97	108	47.1	
9537	Blm	-1.21	68	2.84	48	2.35	
9538	St6galnac4	-1.21	179	12.85	105	10.62	
9539	Ippk	-1.21	85	4.27	48	3.53	
9540	Naa16	-1.21	104	3.46	68	2.86	
9541	Wdr36	-1.21	180	13.98	100	11.55	
9542	Dedd	-1.21	99	20.97	59	17.32	
9543	Ccdc112	-1.21	68	4.94	39	4.08	
9544	LOC100910414	-1.21	0	11.73	0	9.69	
9545	Usp38	-1.21	169	7.48	93	6.18	
9546	Paip1	-1.21	326	26.53	194	21.9	
9547	Abhd2	-1.21	201	19.95	107	16.47	
9548	Samd9l	-1.21	113	4.35	68	3.59	
9549	Rps16	-1.21	893	316.1	505	260.83	
9550	Anxa6	-1.21	945	78.4	542	64.69	
9551	Paxip1	-1.21	210	10.89	128	8.99	
9552	Adsl	-1.21	242	19.79	156	16.32	
9553	Antxr1	-1.21	1845	103.98	1025	85.78	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9554	Alg3	-1.21	78	12.98	47	10.7	
9555	Tpgs1	-1.21	46	5.97	28	4.93	
9556	Trmt10a	-1.21	101	4.72	55	3.9	
9557	Rpf1	-1.21	95	13.22	66	10.9	
9558	Vamp8	-1.21	44	30.73	23	25.34	
9559	Atp11b	-1.21	172	10.39	104	8.57	
9560	Nfx1	-1.21	575	20.54	299	16.94	
9561	RGD1306058	-1.21	135	27.77	84	22.9	
9562	Pragmin	-1.21	81	3.51	44	2.89	
9563	AABR07054370.1	-1.21	113	50.13	84	41.32	
9564	Edf1	-1.21	249	84.03	143	69.24	
9565	Ikkip	-1.21	168	10.43	122	8.59	
9566	Erbp2	-1.21	84	6.67	45	5.5	
9567	Rerg	-1.21	212	14.52	133	11.96	
9568	Pla2g7	-1.21	748	84.76	382	69.82	
9569	Synj1	-1.21	302	8.91	199	7.34	
9570	Copg1	-1.21	1068	48.29	642	39.77	
9571	Aspn_1	-1.21	7	4.9	5	4.04	
9572	Lactb	-1.21	79	3.59	37	2.96	
9573	Paxbp1	-1.21	291	13.56	214	11.16	
9574	Ppat	-1.21	193	9.26	110	7.63	
9575	Sart1	-1.21	245	22.14	138	18.23	
9576	Nedd8	-1.21	273	73.67	160	60.65	
9577	Ncam1	-1.22	112	4.68	58	3.85	
9578	Pgam5	-1.22	204	20.76	105	17.09	
9579	Gga1	-1.22	232	19.92	138	16.39	
9580	Uba52	-1.22	942	461.25	523	379.31	
9581	Rnf111l_1	-1.22	80	21.49	41	17.66	
9582	Med10	-1.22	81	18.19	57	14.94	
9583	Tbc1d25	-1.22	244	6.89	158	5.66	
9584	Ube2e2	-1.22	34	7.88	18	6.47	
9585	Gtf3a	-1.22	89	12.92	63	10.61	
9586	LOC100912585	-1.22	0	1.19	0	0.98	
9587	Mrpl41	-1.22	37	16.26	21	13.35	
9588	Rsbp1	-1.22	96	2.55	64	2.1	
9589	Zfp830	-1.22	46	7.81	26	6.42	
9590	Cobll1	-1.22	202	7.46	127	6.12	
9591	Dohh	-1.22	153	20.45	85	16.77	
9592	Cr1l	-1.22	459	44.92	261	36.84	
9593	Clip2	-1.22	246	8.86	122	7.27	
9594	Cotl1	-1.22	44	6.05	28	4.96	
9595	Emc6	-1.22	77	15.35	44	12.58	
9596	Hyal3	-1.22	46	6.94	24	5.69	
9597	Ddx20	-1.22	124	10.41	75	8.53	
9598	Mon2	-1.22	637	20.32	366	16.65	
9599	Ttl	-1.22	124	11.69	78	9.58	
9600	Dmtf1	-1.22	277	14.39	186	11.79	
9601	Prps1	-1.22	115	13.84	64	11.33	
9602	Wdr44	-1.22	77	2.97	43	2.43	
9603	Commd1	-1.22	176	14.9	126	12.2	
9604	LOC498435	-1.22	81	10.39	44	8.5	
9605	Kmt2a	-1.22	561	11.43	313	9.36	
9606	RGD1307929	-1.22	870	30.19	506	24.72	
9607	Eml4	-1.22	221	9.39	139	7.68	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9608	Tp53inp2	-1.22	701	41.13	392	33.65	
9609	Ugdh	-1.22	283	25.57	159	20.92	
9610	Tom1	-1.22	209	18.38	112	15.03	
9611	Hcfc1	-1.22	1501	39.91	852	32.63	
9612	Mrpl32	-1.22	67	20.76	37	16.97	
9613	Orai1	-1.22	94	14.21	57	11.62	
9614	Spdl1	-1.22	25	1.74	15	1.42	
9615	AABR07059891.1	-1.22	22	13.56	16	11.08	
9616	Auh	-1.22	63	6.11	52	5	
9617	LOC100360835	-1.22	2	6.51	5	5.32	
9618	Osbpl10	-1.22	46	1.47	21	1.2	
9619	Ppp1r36	-1.22	21	2.68	13	2.19	
9620	Rab39a	-1.22	26	0.86	14	0.7	
9621	Tlk1_2	-1.22	1	0.98	0	0.8	
9622	Usp29	-1.22	20	0.63	12	0.52	
9623	Phlpp2	-1.22	248	9.82	168	8.02	
9624	Aktip	-1.22	131	17.69	72	14.45	
9625	Smim3	-1.22	140	17.72	74	14.47	
9626	Yrdc	-1.22	141	17.95	74	14.66	
9627	Hibadh	-1.23	234	23.08	154	18.84	
9628	Dis3	-1.23	110	6.04	69	4.93	
9629	Gpsm1	-1.23	263	13.82	157	11.27	
9630	Ube2e1	-1.23	142	32.09	85	26.17	
9631	Tmem57	-1.23	210	13.14	120	10.71	
9632	Zfp704	-1.23	101	6.03	75	4.91	
9633	Cct5	-1.23	1070	147.73	600	120.41	
9634	Jtb	-1.23	60	18.7	31	15.23	
9635	Suv39h111	-1.23	86	4.93	46	4.01	
9636	Mynn	-1.23	139	11.38	77	9.27	
9637	Smc5	-1.23	261	7.86	153	6.4	
9638	Sec22b	-1.23	228	38.17	143	31.07	
9639	BC068281	-1.23	32	2.84	17	2.31	
9640	Fastkd1	-1.23	65	3.5	36	2.85	
9641	Trit1	-1.23	191	8.84	142	7.2	
9642	Trmt6	-1.23	61	4.27	33	3.48	
9643	Ndrp1	-1.23	57	4.28	29	3.49	
9644	Pdhx	-1.23	62	4.56	40	3.71	
9645	Peg12	-1.23	49	4.78	28	3.89	
9646	Rabep1	-1.23	285	12.58	182	10.23	
9647	Rnd2	-1.23	52	9.25	29	7.53	
9648	Rpl3	-1.23	1980	351.69	1094	286.13	
9649	Atp2b1	-1.23	857	40.14	474	32.64	
9650	Tax1bp1	-1.23	774	52.89	497	43	
9651	Dync1i2	-1.23	638	47.52	349	38.63	
9652	Gabpa	-1.23	167	7.84	91	6.37	
9653	Lamc1	-1.23	1268	38.18	709	31.01	
9654	Bri3bp	-1.23	42	7.54	24	6.12	
9655	Cep63	-1.23	114	6.11	78	4.97	
9656	Gabre	-1.23	46	1.89	29	1.53	
9657	Gpatch2	-1.23	125	4.97	64	4.03	
9658	Mgst3	-1.23	37	14.12	20	11.47	
9659	Plod3	-1.23	645	58.08	360	47.13	
9660	Lsm3	-1.23	79	27.06	48	21.96	
9661	Rps7	-1.23	166	426.35	104	345.98	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9662	Ilf2	-1.23	215	19.56	126	15.87	
9663	mrpl11	-1.23	49	13	29	10.55	
9664	Polr2j	-1.23	92	29.43	53	23.87	
9665	Fam207a	-1.23	75	6.16	46	5	
9666	Pdcd10	-1.23	214	27.69	123	22.45	
9667	Map3k3	-1.23	353	15.43	216	12.51	
9668	F2r	-1.23	450	32.11	251	26.03	
9669	Krit1	-1.23	199	8.51	106	6.9	
9670	Tmcc2	-1.23	76	3.52	45	2.85	
9671	Dyrk1a	-1.23	271	19.05	170	15.44	
9672	Tra2b	-1.23	578	78.87	370	63.87	
9673	Hprt1_2	-1.24	82	42.78	43	34.64	
9674	Atp5f1_2	-1.24	0	18	0	14.57	
9675	Ccnc	-1.24	88	5.86	61	4.74	
9676	Guk1	-1.24	177	41.4	96	33.5	
9677	Eef1e1	-1.24	95	9.05	51	7.32	
9678	Nelfe	-1.24	93	13.64	50	11.03	
9679	Mettl14	-1.24	116	9.04	70	7.31	
9680	Plekho1	-1.24	120	16.89	68	13.66	
9681	Pja2	-1.24	527	27.76	299	22.45	
9682	Hmgn1	-1.24	216	80.8	145	65.3	
9683	Arl8a	-1.24	262	29.92	136	24.18	
9684	Mgat2	-1.24	212	21.45	117	17.33	
9685	Taf2	-1.24	260	10.58	139	8.55	
9686	Nap111	-1.24	362	51.96	205	41.97	
9687	St13	-1.24	119	68.51	104	55.33	
9688	Mllt4	-1.24	653	24.78	390	20.01	
9689	Cadm4	-1.24	9	1.56	5	1.26	
9690	Ndufaf2	-1.24	42	2.11	21	1.7	
9691	Apobec3b	-1.24	20	2.29	12	1.85	
9692	Aspn_2	-1.24	7	3.27	6	2.64	
9693	Cdh13	-1.24	102	1.67	79	1.34	
9694	Ctsk	-1.24	20	3.17	17	2.56	
9695	Ddx11	-1.24	18	2.14	10	1.73	
9696	Fam98b	-1.24	37	8.61	24	6.95	
9697	Gm4944	-1.24	20	1.34	15	1.09	
9698	Irx5	-1.24	39	3.74	21	3.02	
9699	LOC100911519	-1.24	0	0.81	0	0.66	
9700	Mcm4	-1.24	208	18.8	120	15.18	
9701	Mcu	-1.24	126	5.76	62	4.65	
9702	Mrpl38	-1.24	109	18.9	59	15.26	
9703	Napepld	-1.24	23	1.44	21	1.16	
9704	Nars2	-1.24	62	3.94	45	3.18	
9705	Neurl2	-1.24	10	1.54	7	1.24	
9706	Pbdc1	-1.24	106	15.14	56	12.22	
9707	Pcdhb4	-1.24	7	0.88	5	0.71	
9708	Polr2k	-1.24	44	17.35	19	14.01	
9709	Pou6f1	-1.24	62	6.03	30	4.87	
9710	Qtrt1	-1.24	22	2.34	13	1.89	
9711	Rdh13	-1.24	23	1.42	15	1.15	
9712	RGD1561252	-1.24	8	12.27	4	9.9	
9713	Rhod	-1.24	34	3.02	14	2.44	
9714	Rmdn3	-1.24	18	4.08	10	3.29	
9715	Slc25a2	-1.24	9	1.87	5	1.51	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9716	Snrpd1	-1.24	85	24.26	52	19.58	
9717	Spred1	-1.24	71	6.86	46	5.54	
9718	Stil	-1.24	62	2.81	38	2.27	
9719	Tcaim	-1.24	44	2.51	38	2.02	
9720	Tcf19	-1.24	18	5.35	11	4.32	
9721	Tcp1111	-1.24	93	8.4	64	6.78	
9722	Ube2j1	-1.24	222	34.21	123	27.62	
9723	Vps37d	-1.24	15	1.43	10	1.16	
9724	Zbtb2	-1.24	73	5	35	4.04	
9725	LOC100910867	-1.24	22	0.71	33	0.58	
9726	Uba2-ps1	-1.24	86	17.18	50	13.87	
9727	Rgl1	-1.24	430	15.04	226	12.14	
9728	Faf1	-1.24	248	20.97	165	16.9	
9729	Rnf146	-1.24	123	14.65	65	11.8	
9730	Odf2	-1.24	380	16.57	235	13.35	
9731	Nmd3	-1.24	108	11.17	65	8.99	
9732	Iqgap3	-1.24	87	3.57	52	2.87	
9733	Ezh2	-1.24	216	13.2	126	10.63	
9734	Pold3	-1.24	91	4.29	52	3.45	
9735	Hectd3	-1.24	73	6.26	40	5.04	
9736	Mapk8	-1.24	161	9.79	110	7.88	
9737	Magt1	-1.24	496	24.43	295	19.66	
9738	Lrch1	-1.24	255	9.58	136	7.71	
9739	Csnk1a1	-1.24	1454	125.07	769	100.62	
9740	Senp5	-1.24	0	6.19	0	4.98	
9741	Tmcc1	-1.24	223	13.93	152	11.2	
9742	Cnbp	-1.24	754	110.77	418	89.08	
9743	Inpp4a	-1.24	193	7.54	108	6.06	
9744	Ptar1	-1.24	94	7.34	56	5.9	
9745	Mrpl12	-1.24	148	22.48	86	18.07	
9746	Vps33b	-1.24	61	4.76	38	3.83	
9747	Slc30a5	-1.24	316	20.11	182	16.17	
9748	Acp1	-1.24	62	13.72	49	11.02	
9749	Zbtb41	-1.24	87	6.84	50	5.49	
9750	Acer3	-1.24	108	5.06	70	4.06	
9751	Nckap5l	-1.24	174	8.41	95	6.75	
9752	Psmc1	-1.24	494	74.56	280	59.9	
9753	Ccdc149	-1.25	82	4.99	48	4.01	
9754	Srgap1	-1.25	114	2.91	92	2.33	
9755	Tab3	-1.25	43	4.41	26	3.54	
9756	Rpa2	-1.25	120	12.31	69	9.88	
9757	Tril	-1.25	725	37.34	398	29.97	
9758	Yif1b_1	-1.25	4	23.25	1	18.65	
9759	Stard4	-1.25	103	8.94	58	7.17	
9760	Wdfy1	-1.25	363	15.87	197	12.73	
9761	Ankrd13c	-1.25	357	23.07	197	18.5	
9762	Cwc22	-1.25	113	11.01	75	8.83	
9763	Fam199x	-1.25	32	6.22	18	4.99	
9764	RGD1304595	-1.25	38	1.82	21	1.46	
9765	Arhgap35	-1.25	862	22.79	483	18.27	
9766	Sh2d4a	-1.25	726	55.62	406	44.58	
9767	Ahr	-1.25	175	7.56	93	6.05	
9768	Nup153	-1.25	467	17.26	270	13.83	
9769	Cnbd2	-1.25	536	3.9	503	3.12	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9770	Bicd1	-1.25	171	2.95	119	2.36	
9771	Fam118b	-1.25	105	7.42	62	5.94	
9772	Vps29	-1.25	177	25.42	111	20.35	
9773	Gmps	-1.25	218	20.44	133	16.36	
9774	Atg3	-1.25	109	12.34	59	9.88	
9775	Socs5	-1.25	170	9.3	103	7.44	
9776	Mesdc1	-1.25	307	37.89	169	30.31	
9777	Atp5g1	-1.25	125	66.18	78	52.92	
9778	Fkbp9	-1.25	856	68.43	472	54.72	
9779	Lcorl	-1.25	156	5.02	134	4.01	
9780	AC115158.1	-1.25	38	7.95	21	6.35	
9781	Btn2a2	-1.25	25	1.62	12	1.29	
9782	Cdca8	-1.25	73	9.85	45	7.88	
9783	Dclk2	-1.25	55	1.19	29	0.95	
9784	Epha4	-1.25	23	0.79	17	0.63	
9785	Fgfr1op	-1.25	103	4.67	61	3.73	
9786	Psmc6	-1.25	313	27.23	171	21.76	
9787	Wwp1	-1.25	87	6.53	57	5.22	
9788	Dysf	-1.25	33	0.73	19	0.59	
9789	Add1	-1.25	1378	74.34	751	59.39	
9790	Ppp3cb	-1.25	276	17.56	158	14.03	
9791	LOC100362027	-1.25	88	141.61	34	113.1	
9792	Mfn1	-1.25	477	22.17	256	17.7	
9793	Col3a1	-1.25	858	44.92	466	35.86	
9794	Alpk1	-1.25	127	2.7	65	2.15	
9795	Rab6a	-1.25	606	38.48	338	30.72	
9796	Txnl4a	-1.25	73	24.47	39	19.53	
9797	LOC361990	-1.25	334	26.55	245	21.19	
9798	Cdk12	-1.25	310	10.42	204	8.32	
9799	Rbm18	-1.25	204	17.44	112	13.91	
9800	Kpna2	-1.25	94	35.1	47	28.01	
9801	Rcor3	-1.25	114	6.91	75	5.51	
9802	Zbtb22	-1.25	103	9.89	56	7.89	
9803	Aldh3a2	-1.25	276	18.7	153	14.92	
9804	RGD1304704	-1.25	338	62.98	197	50.23	
9805	Plk1	-1.25	93	9.13	49	7.28	
9806	Dlst	-1.25	491	39.54	273	31.53	
9807	Chchd6	-1.25	54	7.17	29	5.71	
9808	Fzd5	-1.25	31	3.59	16	2.86	
9809	Pus7	-1.25	94	6.29	49	5.01	
9810	Golph3	-1.26	310	26.87	159	21.4	
9811	Csrp2bp	-1.26	125	6.86	84	5.46	
9812	Sbf2	-1.26	691	17.04	387	13.57	
9813	Esd	-1.26	174	26.69	108	21.25	
9814	Foxk1	-1.26	62	3.26	41	2.6	
9815	Tmem123	-1.26	819	57.28	397	45.61	
9816	Cebpz	-1.26	245	13.07	137	10.4	
9817	Dnmt3a	-1.26	232	9.76	126	7.77	
9818	Rlim	-1.26	26	18.16	14	14.44	
9819	Ube2v2	-1.26	112	7.23	65	5.75	
9820	LOC100910833	-1.26	48	20.59	29	16.37	
9821	Klf9	-1.26	144	10.53	77	8.37	
9822	Elf4	-1.26	111	10.79	62	8.58	
9823	Cst3	-1.26	869	320.27	467	254.6	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9824	Pnn	-1.26	312	26.32	169	20.92	
9825	Brd9	-1.26	233	12.91	143	10.26	
9826	Spata5	-1.26	185	9.7	120	7.71	
9827	Cct7	-1.26	674	77.18	355	61.32	
9828	Exoc1	-1.26	224	10.95	137	8.7	
9829	Golga2	-1.26	352	22.32	193	17.73	
9830	Ap1s1	-1.26	304	49.87	167	39.6	
9831	Ero1l	-1.26	125	11.53	80	9.16	
9832	Psen2	-1.26	181	17.07	101	13.55	
9833	Plrg1	-1.26	157	19.72	83	15.64	
9834	Akap9	-1.26	729	13.07	421	10.37	
9835	Tec	-1.26	23	0.86	12	0.68	
9836	Cbr1_1	-1.26	0	1.41	0	1.12	
9837	Dennd1b	-1.26	139	7.97	83	6.32	
9838	LOC100360056_1	-1.26	2	44.93	1	35.61	
9839	LOC100361061	-1.26	6	9.05	3	7.17	
9840	LOC100362038	-1.26	714	24.51	398	19.43	
9841	LOC100362339	-1.26	0	5.51	0	4.37	
9842	LOC103690015	-1.26	1	6.01	0	4.76	
9843	Mbip	-1.26	48	5.17	30	4.1	
9844	Mmp16	-1.26	19	0.78	13	0.62	
9845	Mrps30	-1.26	83	11.09	47	8.79	
9846	Zcchc3	-1.26	44	9.11	24	7.22	
9847	Zmynd19	-1.26	34	13.51	16	10.71	
9848	Enpep	-1.26	18	0.72	12	0.57	
9849	Gtpbp6_1	-1.26	0	1.78	0	1.41	
9850	Irf5	-1.26	22	1.17	11	0.92	
9851	Kctd11	-1.26	11	1.27	6	1	
9852	Pde12	-1.26	85	4.69	45	3.72	
9853	Bri3	-1.26	184	44.88	88	35.53	
9854	Rcc2	-1.26	274	49.87	146	39.48	
9855	Ints10	-1.26	221	11.51	120	9.11	
9856	Prtfdc1	-1.26	588	23.95	292	18.96	
9857	Txn1	-1.26	454	328.27	240	259.77	
9858	Cdk8	-1.26	139	13.92	66	11.01	
9859	H2afx	-1.26	166	31.66	91	25.05	
9860	Dnlz	-1.26	79	12.5	43	9.89	
9861	Snx4	-1.26	353	22.11	229	17.48	
9862	Stau1	-1.26	416	28.46	237	22.5	
9863	Slc35f5	-1.27	156	10.46	95	8.27	
9864	Trmt44	-1.27	97	2	53	1.58	
9865	Ick	-1.27	153	9.06	93	7.16	
9866	Tpx2	-1.27	124	8.64	69	6.83	
9867	Zzef1	-1.27	272	5.52	146	4.36	
9868	Csrnp2	-1.27	110	8.17	78	6.45	
9869	Ntan1	-1.27	131	17.96	60	14.19	
9870	Pfdn5	-1.27	150	49.21	91	38.85	
9871	Sigmar1	-1.27	259	38.15	139	30.1	
9872	LOC100359916	-1.27	1013	206.78	618	163.13	
9873	Msantd2	-1.27	327	10.48	173	8.26	
9874	Nemf	-1.27	104	9.98	76	7.87	
9875	Eif3b	-1.27	757	61.37	406	48.38	
9876	LOC102549842	-1.27	130	4.59	96	3.62	
9877	Trappc5	-1.27	75	12.23	35	9.64	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9878	Enthd2	-1.27	94	7.46	49	5.88	
9879	Ankrd12	-1.27	236	4.84	146	3.81	
9880	AC133270.1	-1.27	68	15.57	29	12.26	
9881	Clp1	-1.27	48	6.63	27	5.22	
9882	Fancl	-1.27	35	3.62	26	2.85	
9883	Lrrc28	-1.27	49	2.04	30	1.61	
9884	Mnt	-1.27	35	4.7	22	3.7	
9885	Pfkfb4_1	-1.27	23	5.84	9	4.6	
9886	Prdm5	-1.27	82	1.56	60	1.22	
9887	E2f8	-1.27	29	2.27	14	1.79	
9888	Sh3bp1	-1.27	28	2.33	14	1.83	
9889	RGD1308428	-1.27	323	9.83	189	7.73	
9890	Col4a3bp	-1.27	270	9.57	149	7.53	
9891	Ndufa13_2	-1.27	278	178.43	168	140.38	
9892	MGC108823	-1.27	58	20.79	27	16.35	
9893	Cers5	-1.27	459	32.94	243	25.91	
9894	Cdk11b	-1.27	337	25.22	179	19.83	
9895	Opa1	-1.27	327	20.59	187	16.19	
9896	Phpt1	-1.27	68	23.94	39	18.82	
9897	Snip1	-1.27	0	6.16	0	4.85	
9898	Gnaq	-1.27	191	18.11	125	14.24	
9899	Pcnp	-1.27	151	40.43	83	31.77	
9900	Ticrr	-1.27	49	1.42	30	1.11	
9901	Zdhhc21	-1.27	87	5.12	52	4.02	
9902	Mis12	-1.27	37	14.85	20	11.66	
9903	Tsen54	-1.27	47	4.66	32	3.66	
9904	Rrp1	-1.27	105	11.85	63	9.3	
9905	Tmem11	-1.27	82	14.61	50	11.47	
9906	Ccar1	-1.27	413	17.46	233	13.71	
9907	Nsa2	-1.27	194	53.05	137	41.64	
9908	Anxa5	-1.27	1270	185.38	696	145.48	
9909	Furin	-1.27	1088	62.35	587	48.91	
9910	Cntrl	-1.27	173	4.02	95	3.15	
9911	Nop16	-1.27	116	23.42	65	18.37	
9912	Mob1a	-1.28	471	27.77	258	21.78	
9913	Zfp644	-1.28	985	25.5	509	20	
9914	Zdhhc13	-1.28	88	7.85	49	6.16	
9915	Dcp1a	-1.28	339	10.5	206	8.22	
9916	Hmgcr	-1.28	1128	63.03	615	49.37	
9917	Cul1	-1.28	491	31.46	273	24.63	
9918	Sec61a1	-1.28	1101	88.92	596	69.62	
9919	Erh	-1.28	259	78.67	139	61.59	
9920	Strap	-1.28	250	43.43	136	33.99	
9921	Cic	-1.28	553	23.77	287	18.61	
9922	Zfp106	-1.28	638	23.31	338	18.24	
9923	Abhd11	-1.28	26	5.66	17	4.43	
9924	Dctpp1	-1.28	14	5.02	7	3.93	
9925	Gtpbp6_2	-1.28	0	2.1	0	1.64	
9926	Nfatc2	-1.28	22	0.88	16	0.68	
9927	Noc3l	-1.28	126	7.72	56	6.04	
9928	Ranbp17	-1.28	43	0.66	30	0.52	
9929	Rpl39_1	-1.28	0	20.76	0	16.25	
9930	Shcbp1	-1.28	29	3.26	17	2.55	
9931	Swt1	-1.28	123	5.28	92	4.13	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9932	Taok3	-1.28	112	4.46	51	3.49	
9933	AABR07032135.1	-1.28	17	6.44	12	5.04	
9934	AABR07059639.1	-1.28	0	2.11	0	1.65	
9935	Cds1	-1.28	17	1.64	13	1.29	
9936	Cldn1	-1.28	14	0.98	9	0.77	
9937	Dph5	-1.28	37	4.2	20	3.29	
9938	Mrpl2	-1.28	38	9.19	26	7.19	
9939	Rbm20	-1.28	22	0.48	13	0.38	
9940	Sf3b6	-1.28	50	17.41	25	13.63	
9941	Atp5e	-1.28	190	130.9	107	102.34	
9942	Tpp2	-1.28	445	13.43	247	10.5	
9943	Upf2	-1.28	155	7.77	114	6.07	
9944	Slc30a7	-1.28	126	11.4	67	8.91	
9945	Usp10	-1.28	440	27.46	233	21.45	
9946	Cnot6l	-1.28	296	14.11	162	11.02	
9947	Mtx2	-1.28	97	13.77	73	10.75	
9948	Krcc1	-1.28	171	18.69	97	14.59	
9949	Tbc1d9	-1.28	297	10.33	174	8.06	
9950	Usp47	-1.28	938	32.77	549	25.58	
9951	Cops2	-1.28	382	23.13	206	18.05	
9952	RGD1560341	-1.28	181	39.18	106	30.57	
9953	Phc3	-1.28	233	9.35	144	7.29	
9954	Itih5	-1.28	49	7.26	25	5.66	
9955	Mfhas1	-1.28	57	3.22	31	2.51	
9956	Zfp503	-1.28	41	3.29	22	2.57	
9957	Becn1	-1.28	315	17.5	177	13.64	
9958	Ube2q1	-1.28	312	36.01	186	28.07	
9959	Eif3i	-1.28	328	82.55	167	64.34	
9960	Ube2n	-1.28	241	41.56	140	32.38	
9961	Bloc1s1	-1.28	76	31.37	44	24.45	
9962	Slc12a7	-1.28	639	24.42	340	19.03	
9963	Kdm5c	-1.28	710	25.95	387	20.22	
9964	LOC684988	-1.28	497	384.94	292	299.76	
9965	Lox	-1.28	3172	157.21	1813	122.4	
9966	Utp15	-1.28	121	10.62	62	8.27	
9967	Rps6kc1	-1.29	199	6.23	121	4.85	
9968	Blmh	-1.29	289	23.11	156	17.98	
9969	Arntl	-1.29	110	5.95	53	4.63	
9970	Wbscr22	-1.29	90	12.33	41	9.59	
9971	Atp10d	-1.29	534	27.36	301	21.28	
9972	Ap4b1	-1.29	99	7.34	53	5.7	
9973	Pop4	-1.29	100	18.19	56	14.14	
9974	Tsr1	-1.29	221	19.29	127	14.99	
9975	Cd59	-1.29	370	60.61	203	47.09	
9976	Lcat	-1.29	77	10.61	41	8.24	
9977	Nup43	-1.29	66	7.84	40	6.09	
9978	Csnk1g3	-1.29	152	13.5	70	10.48	
9979	Mettl9	-1.29	258	35.25	146	27.35	
9980	Zfp91	-1.29	385	18.05	218	14.01	
9981	Zfp84	-1.29	317	4.31	251	3.34	
9982	Trim8	-1.29	190	11.84	96	9.18	
9983	Brd7	-1.29	330	27.82	181	21.57	
9984	Akr1c3	-1.29	68	12.3	38	9.54	
9985	Taf13	-1.29	41	5.49	21	4.25	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
9986	Dab2ip	-1.29	358	11.36	183	8.8	
9987	Haus7	-1.29	38	3.77	20	2.92	
9988	Hddc2	-1.29	49	5.62	24	4.36	
9989	Pradc1	-1.29	19	3.36	9	2.6	
9990	Rtn4r	-1.29	20	2.18	13	1.69	
9991	Trim65	-1.29	72	5	36	3.87	
9992	Lsm14a	-1.29	414	29.87	249	23.14	
9993	Snrnp70	-1.29	830	50.31	512	38.94	
9994	LOC100911766	-1.29	19	12.79	11	9.9	
9995	Isy1	-1.29	118	15.5	72	12	
9996	Dap3	-1.29	225	17.59	127	13.61	
9997	Spag5	-1.29	64	3.95	36	3.06	
9998	Tbk1	-1.29	164	6.59	86	5.09	
9999	Mt-nd6	-1.29	741	364.87	395	281.84	
10000	Hbs1l	-1.29	319	20.53	174	15.86	
10001	Pitrm1	-1.29	643	42.38	340	32.73	
10002	Cd63	-1.29	746	162.7	392	125.64	
10003	Recql4	-1.3	23	1.32	11	1.02	
10004	Cdc7	-1.3	46	2.73	19	2.11	
10005	Eed	-1.3	147	11.88	78	9.17	
10006	C1qbp	-1.3	263	59.19	140	45.68	
10007	Smc6	-1.3	284	13.03	165	10.06	
10008	Ralbp1	-1.3	469	34.67	241	26.72	
10009	Mak16	-1.3	69	9.64	40	7.43	
10010	Rangap1	-1.3	379	28.13	193	21.68	
10011	Eftud1	-1.3	145	7.8	90	6.01	
10012	Cyb5r4	-1.3	176	14.98	96	11.53	
10013	Hipk3	-1.3	627	33.29	336	25.62	
10014	LOC100910951	-1.3	16	7.67	7	5.9	
10015	Ap4s1	-1.3	57	2.48	33	1.91	
10016	Eapp	-1.3	74	14.78	51	11.37	
10017	Hdac11	-1.3	18	1.69	15	1.3	
10018	Loxl3	-1.3	25	1.32	12	1.02	
10019	MGC94335	-1.3	78	12.3	39	9.46	
10020	Pmm2	-1.3	247	23.01	138	17.7	
10021	Sdad1	-1.3	121	7.77	69	5.97	
10022	Tap2_1	-1.3	1	3.49	0	2.69	
10023	Zfp259	-1.3	147	10.24	75	7.88	
10024	RGD1564420	-1.3	363	20.6	198	15.83	
10025	Ep300	-1.3	194	14.95	122	11.49	
10026	Ppfibp1	-1.3	1325	54.75	742	42.07	
10027	Rars	-1.3	272	28.56	145	21.94	
10028	Nln	-1.3	207	11.67	113	8.97	
10029	RGD1311946	-1.3	160	18.4	87	14.14	
10030	Cflar	-1.3	205	7.64	114	5.87	
10031	LOC100125364	-1.3	119	12.08	69	9.27	
10032	Rrp8	-1.3	56	4.87	30	3.74	
10033	Ufc1	-1.3	134	25.47	74	19.55	
10034	Fbl	-1.3	225	52.32	124	40.16	
10035	Stk25	-1.3	423	48.51	231	37.24	
10036	Lrwd1	-1.3	109	9.99	52	7.67	
10037	Hlcs	-1.3	186	6.35	152	4.87	
10038	Dek	-1.3	201	15.92	115	12.21	
10039	Arl3	-1.3	163	16.71	100	12.81	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
10040	Fam32a	-1.3	248	29.59	137	22.67	
10041	Mybbp1a	-1.31	697	43.72	375	33.5	
10042	Pvrl3	-1.31	274	16.81	202	12.88	
10043	Anapc7	-1.31	207	16.73	119	12.82	
10044	Ndufv3	-1.31	165	26.32	99	20.17	
10045	Smyd2	-1.31	255	29.11	147	22.3	
10046	Cstf3	-1.31	164	6.15	93	4.71	
10047	Glud1	-1.31	799	61.36	411	46.98	
10048	Emg1	-1.31	194	12.68	111	9.71	
10049	Ndufb11	-1.31	188	54.59	98	41.79	
10050	Cdk17	-1.31	138	6.31	85	4.83	
10051	Ccdc88a	-1.31	196	6.87	109	5.26	
10052	Ubqln1	-1.31	866	52.89	451	40.46	
10053	Cep19	-1.31	62	9.19	36	7.03	
10054	Gkap1	-1.31	197	13.11	141	10.02	
10055	Lrrc8e	-1.31	64	4.74	33	3.62	
10056	Med21	-1.31	51	11.92	33	9.12	
10057	ldh1	-1.31	581	64.96	301	49.63	
10058	Atoh8	-1.31	117	10.18	64	7.77	
10059	Clpb	-1.31	117	10.28	72	7.86	
10060	Ago2	-1.31	255	18.71	135	14.29	
10061	Mrpl28	-1.31	84	25.11	43	19.18	
10062	Klc2	-1.31	280	21.77	151	16.63	
10063	Sms	-1.31	69	15.24	46	11.63	
10064	Etv3	-1.31	168	6.64	83	5.07	
10065	Ttc28	-1.31	739	13.65	383	10.41	
10066	Cog3	-1.31	191	10.5	114	8.01	
10067	Cd200	-1.31	430	44.59	242	34.02	
10068	Sh3bgrl3	-1.31	122	39.6	65	30.21	
10069	Hdgf	-1.31	869	108.69	451	82.92	
10070	Deptor	-1.31	386	28.93	194	22.06	
10071	ltsn2	-1.31	388	10.19	199	7.77	
10072	Slain2	-1.31	498	17.94	274	13.68	
10073	Gapvd1	-1.31	619	24.36	323	18.57	
10074	Cpne1	-1.31	0	7.33	0	5.58	
10075	Med1	-1.31	412	16.03	236	12.21	
10076	Anxa7	-1.31	664	81.36	351	61.94	
10077	Cops5	-1.31	209	27.78	114	21.14	
10078	Cript	-1.31	64	10.98	33	8.36	
10079	Fam129b	-1.31	92	5.69	50	4.33	
10080	Fam92a1	-1.31	52	9.8	39	7.46	
10081	Haus4	-1.31	24	3.38	11	2.57	
10082	Med11	-1.31	22	5.78	11	4.4	
10083	Prpf39	-1.31	318	13.22	161	10.06	
10084	Rab33b	-1.31	107	7.8	58	5.94	
10085	Rnf40	-1.31	64	6.12	36	4.66	
10086	Sertad3	-1.31	25	3.98	15	3.03	
10087	Smc3	-1.31	366	17.42	199	13.26	
10088	Cep290	-1.31	48	1.15	35	0.88	
10089	Zc3h15	-1.31	229	31.47	127	23.95	
10090	Drap1	-1.31	161	26.41	85	20.09	
10091	Psmd12	-1.31	342	40.64	184	30.91	
10092	Eif3g	-1.32	337	72.77	177	55.33	
10093	Serpinh1	-1.32	4148	482.62	2159	366.91	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
10094	Rps3a	-1.32	284	156.75	101	119.15	
10095	Zw10	-1.32	119	10.29	66	7.82	
10096	Psma7	-1.32	489	124.58	263	94.64	
10097	Hook1	-1.32	51	2	33	1.52	
10098	Itga5	-1.32	135	7.48	71	5.68	
10099	LOC100359600	-1.32	13	5.55	6	4.21	
10100	Nsun5	-1.32	49	6.97	26	5.3	
10101	Vps37a	-1.32	135	12.79	79	9.71	
10102	Zdhhc20	-1.32	206	16.71	120	12.69	
10103	Cct4	-1.32	831	91.75	433	69.67	
10104	Nip7	-1.32	71	14.17	40	10.76	
10105	Apaf1	-1.32	283	10.25	142	7.78	
10106	Hivep2	-1.32	43	1.22	26	0.92	
10107	Rassf7	-1.32	24	4.06	12	3.07	
10108	Wdr76	-1.32	37	3.07	24	2.32	
10109	Ankrd28	-1.32	352	18.93	200	14.35	
10110	Dnajc19	-1.32	56	2.43	45	1.84	
10111	Fam115c_2	-1.32	4	1.94	0	1.47	
10112	Ngrn	-1.32	77	8.6	45	6.52	
10113	Setd7	-1.32	153	11.59	84	8.79	
10114	Utp14a	-1.32	66	4.41	32	3.34	
10115	Plat	-1.32	63	9.21	34	6.98	
10116	Prkar2a	-1.32	332	26.72	185	20.24	
10117	Chd7	-1.32	142	3	72	2.27	
10118	Nptn	-1.32	429	37.8	215	28.62	
10119	Pdap1	-1.32	282	43.54	150	32.96	
10120	Polr3k	-1.32	50	12.39	27	9.38	
10121	Ppig	-1.32	264	12.81	139	9.69	
10122	Cdk2	-1.32	205	19.2	104	14.53	
10123	Tmod3	-1.32	224	26.89	110	20.33	
10124	Trip11	-1.32	383	9.64	198	7.29	
10125	Jup	-1.32	1213	65.83	621	49.74	
10126	Eif2b2	-1.32	106	10.31	59	7.79	
10127	AABR07048308.1	-1.32	8	20.16	7	15.23	
10128	Alkbh3	-1.32	153	14.83	84	11.21	
10129	Htra2	-1.32	111	14.27	59	10.78	
10130	Lipt2	-1.32	25	3.29	13	2.48	
10131	Sp100	-1.32	40	6.13	20	4.63	
10132	Zfp182	-1.32	29	2.82	14	2.13	
10133	Npepps	-1.32	558	27.46	318	20.74	
10134	Plxdc2	-1.32	2021	132.01	1127	99.68	
10135	H6pd	-1.32	86	4.06	42	3.07	
10136	Llgl2	-1.33	67	3.04	37	2.29	
10137	Ap5b1	-1.33	52	3.62	26	2.73	
10138	Gpn2	-1.33	60	10.27	32	7.75	
10139	Dos	-1.33	106	7.45	52	5.62	
10140	Slmap	-1.33	679	21.86	343	16.48	
10141	Phf3	-1.33	426	12.58	225	9.49	
10142	Rngtt	-1.33	192	6.39	115	4.82	
10143	Vps35	-1.33	625	45.9	326	34.6	
10144	Ostc	-1.33	333	56.65	155	42.7	
10145	AABR07026197.1	-1.33	19	1.68	10	1.26	
10146	Armc8	-1.33	195	6.05	132	4.56	
10147	Pcgf3	-1.33	255	28.34	155	21.34	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
10148	Rnf111	-1.33	437	18.18	234	13.69	
10149	Bud31	-1.33	190	42.78	102	32.21	
10150	Sugp2	-1.33	114	4.82	67	3.63	
10151	Ddb1	-1.33	3668	208.93	1875	157.27	
10152	Fmr1	-1.33	270	12.92	151	9.72	
10153	Ctu2	-1.33	64	7.22	32	5.43	
10154	Mrpl16	-1.33	73	12.14	35	9.14	
10155	Saa4	-1.33	87	2.02	47	1.52	
10156	Rai2	-1.33	460	33.04	241	24.85	
10157	Ktn1	-1.33	530	20.47	281	15.4	
10158	Tex2	-1.33	271	7.53	135	5.66	
10159	Ccdc186	-1.33	112	7.85	62	5.9	
10160	Cit	-1.33	69	1.91	41	1.43	
10161	Immt	-1.33	440	32.54	251	24.45	
10162	Iscu	-1.33	96	23.46	56	17.63	
10163	Kcnk6_1	-1.33	13	3.12	12	2.34	
10164	Parp12	-1.33	131	10.22	71	7.68	
10165	Ltv1	-1.33	111	11.48	53	8.63	
10166	Otud6b	-1.33	102	9.29	65	6.99	
10167	Usp32	-1.33	417	11.35	261	8.53	
10168	Fam168a	-1.33	542	23.38	297	17.56	
10169	Eml2	-1.33	259	18.98	150	14.25	
10170	LOC100364791	-1.33	273	20.71	160	15.55	
10171	Ndufs7	-1.33	145	30.48	80	22.88	
10172	Ahctf1	-1.33	419	11.12	228	8.35	
10173	Maea	-1.33	420	42.88	215	32.17	
10174	Arl6ip4	-1.33	98	19.52	50	14.64	
10175	Rpl34	-1.33	671	632.77	363	474.58	
10176	Atad2	-1.33	154	7.62	75	5.71	
10177	Lrch2	-1.33	82	6.88	44	5.15	
10178	Wdr55	-1.33	395	29.65	214	22.21	
10179	Eps1511	-1.33	538	20.08	320	15.04	
10180	Mapkap1	-1.34	258	13.77	160	10.31	
10181	Psme4	-1.34	1253	36.48	639	27.32	
10182	Otud7b	-1.34	340	10.74	175	8.04	
10183	Akap17a	-1.34	106	7.72	59	5.78	
10184	Med29	-1.34	85	12.68	42	9.49	
10185	Tmed8	-1.34	51	8.38	44	6.27	
10186	Orc6	-1.34	40	5.44	23	4.07	
10187	Rwdd2b	-1.34	40	3.83	20	2.87	
10188	Vac14	-1.34	407	24.45	220	18.3	
10189	Gnai3	-1.34	602	43.88	320	32.84	
10190	Mta3	-1.34	473	35.09	312	26.26	
10191	Rpl29	-1.34	469	281.99	258	210.92	
10192	LOC102553002	-1.34	82	5.21	63	3.9	
10193	Magi1	-1.34	109	3.53	85	2.64	
10194	Wbscr16	-1.34	92	6.71	46	5.02	
10195	Setx	-1.34	421	10.25	227	7.66	
10196	Gjc1	-1.34	72	5.47	31	4.09	
10197	Lbhd1	-1.34	35	13.54	17	10.12	
10198	Scai	-1.34	97	4.16	66	3.11	
10199	Hmgxb3	-1.34	175	10.24	99	7.65	
10200	Krt8	-1.34	36	5.06	18	3.78	
10201	LOC500035	-1.34	19	13.09	10	9.79	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
10202	Megf10	-1.34	36	1.15	27	0.86	
10203	Cul2	-1.34	234	11.21	139	8.38	
10204	Armcx3	-1.34	321	20.98	164	15.67	
10205	Aff3	-1.34	366	6.65	220	4.96	
10206	Pacsin2	-1.34	284	12.99	146	9.69	
10207	Fam188a	-1.34	114	7.94	79	5.93	
10208	Gcsh	-1.34	81	14.79	44	11.03	
10209	Atxn2	-1.34	512	25.91	285	19.32	
10210	RGD1359108	-1.34	47	6.73	32	5.02	
10211	Cndp2	-1.34	123	13.96	63	10.4	
10212	Larp7	-1.34	122	16.23	64	12.1	
10213	Fgd3	-1.34	162	6.59	77	4.91	
10214	Ctbp2	-1.34	278	15.89	134	11.83	
10215	Dtd1	-1.34	109	15.83	66	11.78	
10216	Etaa1l1	-1.34	82	6.27	42	4.66	
10217	Hnrnp3	-1.34	180	7.82	127	5.82	
10218	Morf4l1	-1.34	252	126.12	150	93.87	
10219	Rab12	-1.34	152	27.69	80	20.61	
10220	Sfpq	-1.34	651	55.97	362	41.62	
10221	Mtdh	-1.35	182	24.01	110	17.85	
10222	R3hcc1l	-1.35	73	4.52	53	3.36	
10223	Acbd3	-1.35	472	24.51	239	18.21	
10224	Ptpn3	-1.35	83	1.48	43	1.1	
10225	RGD1311558	-1.35	75	4.92	39	3.65	
10226	Acot7	-1.35	167	13.25	69	9.84	
10227	Usp25	-1.35	256	14.57	151	10.81	
10228	Sf1	-1.35	995	65.06	530	48.29	
10229	Rgmb	-1.35	57	8.93	27	6.63	
10230	Tmem65	-1.35	248	4.77	131	3.54	
10231	Commd10	-1.35	118	16.55	60	12.28	
10232	Nup54	-1.35	119	10.12	72	7.51	
10233	Exosc7	-1.35	76	11.72	45	8.69	
10234	Ska2	-1.35	92	10.27	69	7.61	
10235	Stk3	-1.35	260	13.32	141	9.88	
10236	RGD1562948	-1.35	133	18.29	72	13.56	
10237	Chchd2	-1.35	0	18.61	0	13.78	
10238	Pik3ca	-1.35	238	14	118	10.37	
10239	Smim7	-1.35	221	40.43	111	29.94	
10240	Tubgcp4	-1.35	150	10.83	79	8.02	
10241	Eef1b2	-1.35	625	165.87	316	122.83	
10242	Degs1	-1.35	419	72.83	219	53.92	
10243	Gapdh	-1.35	60	380.21	38	281.49	
10244	Htt	-1.35	595	9.24	300	6.84	
10245	Vps13a	-1.35	126	3.91	67	2.89	
10246	RGD1563812	-1.35	129	47.81	60	35.36	
10247	Zdhhc2	-1.35	371	42.08	194	31.09	
10248	Chmp4bl1	-1.35	86	28.38	43	20.97	
10249	ENSRNOG00000054	-1.35	101	6.15	43	4.55	
10250	Oxsr1	-1.35	467	20.15	237	14.88	
10251	Dnrtip2	-1.35	196	18.4	102	13.58	
10252	Cox7b	-1.35	64	65.68	35	48.48	
10253	Rcan2	-1.35	178	8.66	82	6.39	
10254	Wipi2	-1.36	165	17.07	90	12.6	
10255	Cstf2	-1.36	305	13.44	165	9.91	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
10256	Eif5	-1.36	466	56.16	235	41.42	
10257	LOC690251	-1.36	0	7.63	0	5.62	
10258	Tmf1	-1.36	297	18.85	170	13.88	
10259	Hras	-1.36	106	26.21	63	19.31	
10260	Pak4	-1.36	244	19.65	121	14.47	
10261	Dclre1a	-1.36	105	4.66	63	3.43	
10262	Exoc8	-1.36	75	7.37	38	5.42	
10263	Gorasp2_1	-1.36	21	37.35	11	27.48	
10264	Pgap1	-1.36	104	6.21	50	4.57	
10265	Pgm3	-1.36	90	8.16	43	6	
10266	Afg3l1	-1.36	265	23.67	141	17.41	
10267	Rfc3	-1.36	99	16.32	50	11.99	
10268	Mysm1	-1.36	146	8.32	87	6.12	
10269	Dbnl	-1.36	267	27.9	150	20.51	
10270	Vezt	-1.36	146	7.7	71	5.66	
10271	Phax	-1.36	122	15.89	63	11.66	
10272	Dync1li2	-1.36	647	30.03	336	22.04	
10273	Ube2d3	-1.36	559	77.68	288	57	
10274	Mapkbp1	-1.36	504	17.38	277	12.76	
10275	Sh3bp5l	-1.36	239	17.29	111	12.68	
10276	LOC100910710	-1.36	107	27.99	56	20.53	
10277	Prosc	-1.36	124	12.78	61	9.37	
10278	AABR07028886.3	-1.36	16	17.89	5	13.12	
10279	AW549877	-1.36	126	5.91	70	4.33	
10280	Mybl2	-1.36	120	7.32	68	5.37	
10281	Dhx29	-1.36	247	12.2	123	8.94	
10282	Hnrnpu	-1.36	1518	92.28	800	67.63	
10283	Pld2	-1.36	160	10.25	76	7.51	
10284	AABR07070032.1	-1.36	61	222.04	41	162.73	
10285	Ugp2	-1.36	146	13.69	73	10.03	
10286	Abcf1	-1.37	557	40.98	277	30.01	
10287	LOC100362149	-1.37	306	507.74	272	371.43	
10288	Prc1	-1.37	159	12.51	81	9.15	
10289	Dbn1	-1.37	685	55.89	342	40.85	
10290	AABR07002177.1	-1.37	41	27.31	15	19.95	
10291	Zbtb20	-1.37	797	15.46	476	11.29	
10292	Myef2	-1.37	333	22.79	208	16.65	
10293	Dync1li1	-1.37	232	26.54	112	19.38	
10294	Dynlt1	-1.37	229	68.7	107	50.16	
10295	Mtmr11	-1.37	261	18.83	130	13.75	
10296	Rnh1	-1.37	453	56.14	239	40.98	
10297	Dyrk2	-1.37	237	9.74	116	7.11	
10298	Rpl11	-1.37	841	58.19	415	42.47	
10299	Hdlbp	-1.37	4388	146.31	2253	106.77	
10300	Plaa	-1.37	258	21.55	125	15.72	
10301	Rpl6	-1.37	153	329.72	74	240.57	
10302	Cln6	-1.37	309	11.58	146	8.45	
10303	March7	-1.37	372	24.49	202	17.86	
10304	Larp4b	-1.37	320	26.66	157	19.44	
10305	Purb	-1.37	276	28.08	139	20.48	
10306	Tgfbr1_2	-1.38	0	0.39	0	0.28	
10307	Tmem263	-1.38	320	17.38	224	12.63	
10308	5_8S_rRNA_4	-1.38	2	6.47	2	4.7	
10309	5S_rRNA_118	-1.38	0	4.7	0	3.42	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
10310	7SK_354	-1.38	2	1.77	1	1.28	
10311	AABR07001435.1	-1.38	11	2.02	4	1.47	
10312	AABR07001497.1	-1.38	4	1.89	4	1.37	
10313	AABR07001512.1	-1.38	2	0.93	1	0.68	
10314	AABR07002247.1	-1.38	14	0.33	7	0.24	
10315	AABR07002493.1	-1.38	22	0.61	11	0.45	
10316	AABR07002775.1	-1.38	0	0.27	0	0.2	
10317	AABR07004404.1	-1.38	3	1.35	6	0.98	
10318	AABR07021930.1	-1.38	2	0.37	2	0.27	
10319	AABR07024593.2	-1.38	2	3.92	1	2.85	
10320	AABR07027722.1	-1.38	0	4.7	0	3.42	
10321	AABR07034669.1	-1.38	32	0.78	35	0.57	
10322	AABR07043844.1	-1.38	2	1.11	1	0.81	
10323	AABR07053734.1	-1.38	0	1.25	0	0.91	
10324	AABR07065593.2	-1.38	0	0.25	0	0.18	
10325	AABR07071697.1	-1.38	27	6.93	18	5.03	
10326	AABR07073038.2	-1.38	12	1.8	17	1.31	
10327	AC093965.1	-1.38	0	2.37	0	1.72	
10328	AC096809.1	-1.38	2	0.73	1	0.53	
10329	AC118490.1	-1.38	1	0.91	1	0.66	
10330	AC119011.1	-1.38	2	0.64	1	0.47	
10331	AC131885.1	-1.38	0	5.14	0	3.73	
10332	AC141136.1	-1.38	2	0.4	3	0.29	
10333	AC142154.1	-1.38	0	0.21	0	0.15	
10334	Adam12	-1.38	14	0.17	15	0.12	
10335	Adprhl1	-1.38	47	0.51	19	0.37	
10336	Adra2c	-1.38	2	0.29	1	0.21	
10337	Agbl2	-1.38	5	0.19	4	0.14	
10338	Akap6	-1.38	38	0.06	24	0.04	
10339	Alpk2	-1.38	2	0.08	4	0.06	
10340	Angptl6	-1.38	1	0.32	1	0.23	
10341	Ankrd29_2	-1.38	8	0.88	4	0.64	
10342	Ap5s1	-1.38	27	2.82	12	2.05	
10343	Arap2	-1.38	65	1.44	35	1.04	
10344	Arfgef3	-1.38	5	0.07	3	0.05	
10345	Arhgap27	-1.38	2	0.19	3	0.14	
10346	Arhgef15	-1.38	1	0.12	1	0.09	
10347	B3gntl1	-1.38	47	1.65	52	1.2	
10348	Bbip1	-1.38	4	2.48	1	1.8	
10349	Bend4	-1.38	27	3.06	14	2.22	
10350	Bend6	-1.38	7	0.5	6	0.36	
10351	Bhlha15	-1.38	2	0.14	1	0.1	
10352	Birc3	-1.38	16	1.32	10	0.96	
10353	C1ql3	-1.38	3	0.65	2	0.47	
10354	C1qtnf5	-1.38	2	0.37	1	0.27	
10355	Cabp1	-1.38	38	0.31	15	0.23	
10356	Cacnb4	-1.38	10	0.13	4	0.1	
10357	Car5b	-1.38	6	0.53	7	0.38	
10358	Ccdc30	-1.38	14	0.19	23	0.14	
10359	Coro6	-1.38	4	0.39	2	0.28	
10360	Crebl2	-1.38	14	0.23	22	0.17	
10361	Crip1	-1.38	5	1.08	2	0.78	
10362	Csnk1g1	-1.38	186	3.41	105	2.48	
10363	Ctrb1	-1.38	3	0.57	2	0.41	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
10364	Cul5	-1.38	278	16.33	147	11.86	
10365	Cutc	-1.38	31	3.06	25	2.22	
10366	Cxxc5_2	-1.38	2	1.1	2	0.8	
10367	Cyp27b1	-1.38	5	0.41	2	0.3	
10368	Cys1	-1.38	20	1.18	12	0.86	
10369	Dcp2_2	-1.38	0	1.04	0	0.76	
10370	Dkk4	-1.38	41	3.34	29	2.43	
10371	Dpp4	-1.38	4	0.1	2	0.07	
10372	Ebi3	-1.38	4	0.41	1	0.3	
10373	Efcab2	-1.38	45	0.89	49	0.65	
10374	Elovl7	-1.38	10	2.78	6	2.02	
10375	Enpp3	-1.38	9	0.36	4	0.26	
10376	ENSRNOG00000054	-1.38	2	0.77	0	0.56	
10377	ENSRNOG00000056	-1.38	2	1.58	1	1.15	
10378	Esrp1	-1.38	7	0.38	3	0.28	
10379	Fam134b_2	-1.38	0	0.95	0	0.69	
10380	Fam83b	-1.38	12	0.31	9	0.22	
10381	Fbxw12	-1.38	4	0.35	2	0.25	
10382	Fer1l5	-1.38	16	0.15	5	0.11	
10383	Fkbp2	-1.38	58	22.83	27	16.59	
10384	Gdf6	-1.38	7	0.43	3	0.31	
10385	Got1l1	-1.38	26	0.7	7	0.51	
10386	Gpr156	-1.38	7	0.21	7	0.15	
10387	Gulo	-1.38	6	0.65	3	0.47	
10388	Hgf	-1.38	5	0.08	2	0.06	
10389	Hmgb3_1	-1.38	3	2.95	1	2.15	
10390	Igf2bp2	-1.38	16	0.41	5	0.3	
10391	Ipo7	-1.38	450	20.19	226	14.67	
10392	Irgm	-1.38	10	1.1	9	0.8	
10393	Katnal1_2	-1.38	0	1.99	0	1.45	
10394	Kcnj4	-1.38	2	0.19	3	0.14	
10395	Kctd7	-1.38	66	10.12	33	7.35	
10396	Ky	-1.38	4	0.09	1	0.07	
10397	Lama3	-1.38	6	0.19	5	0.14	
10398	LOC100360137	-1.38	0	2.56	0	1.86	
10399	LOC100362342	-1.38	3	0.65	2	0.47	
10400	LOC100364116	-1.38	1	4.08	0	2.97	
10401	LOC100910173	-1.38	21	3.39	16	2.46	
10402	LOC100910214	-1.38	1	0.33	0	0.24	
10403	LOC100910318_2	-1.38	0	3.53	0	2.57	
10404	LOC100910336	-1.38	1	12.62	0	9.17	
10405	LOC100911295	-1.38	0	1.71	0	1.24	
10406	LOC100911456	-1.38	0	0.85	0	0.62	
10407	LOC102556119	-1.38	2	0.19	1	0.14	
10408	LOC288978	-1.38	16	0.45	9	0.33	
10409	LOC364556	-1.38	9	0.23	1	0.17	
10410	LOC684841	-1.38	2	1.21	1	0.88	
10411	LOC688130	-1.38	2	0.6	1	0.44	
10412	Lzts3	-1.38	28	2.4	15	1.74	
10413	Mapk1ip1l	-1.38	473	28.21	261	20.5	
10414	Metazoa_SRP_25	-1.38	0	1.85	0	1.34	
10415	Metazoa_SRP_31	-1.38	0	1.67	0	1.21	
10416	MGC105649	-1.38	2	0.43	2	0.31	
10417	Mpp7	-1.38	17	0.23	4	0.16	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
10418	Mrps15	-1.38	96	9.51	51	6.91	
10419	Mtus1	-1.38	208	5.57	92	4.04	
10420	Myh14	-1.38	9	0.23	3	0.16	
10421	Myoc	-1.38	1	0.24	1	0.18	
10422	Nav1	-1.38	31	0.65	15	0.47	
10423	Ndufa5	-1.38	95	33.77	50	24.54	
10424	Nid2	-1.38	73	1.64	37	1.19	
10425	Nipal4	-1.38	2	0.15	1	0.11	
10426	Nol4	-1.38	14	0.1	9	0.07	
10427	Nr1h4	-1.38	13	0.61	8	0.44	
10428	Paip2b	-1.38	32	8.45	24	6.14	
10429	Pdk3	-1.38	78	8.21	50	5.96	
10430	Pggt1b	-1.38	68	7.97	44	5.79	
10431	Pld6	-1.38	9	1.14	2	0.83	
10432	Pnpla1	-1.38	4	0.17	3	0.12	
10433	Ppil3	-1.38	64	12.13	35	8.81	
10434	Ppp2r2b	-1.38	13	0.25	24	0.18	
10435	Prdm16	-1.38	4	0.06	3	0.04	
10436	Prox1	-1.38	11	0.28	6	0.2	
10437	Prr5	-1.38	7	0.26	5	0.19	
10438	Ptchd3	-1.38	3	0.15	1	0.11	
10439	Rab20	-1.38	24	3.03	11	2.2	
10440	Rab5c	-1.38	414	50.76	219	36.88	
10441	Rccd1	-1.38	5	0.44	6	0.32	
10442	Rec114	-1.38	20	1.05	7	0.76	
10443	RGD1305537_2	-1.38	0	0.29	0	0.21	
10444	RGD1559441	-1.38	13	0.1	6	0.08	
10445	RGD1559909	-1.38	57	19.96	29	14.5	
10446	RGD1560789	-1.38	0	1.85	0	1.34	
10447	RGD1561796	-1.38	5	0.87	9	0.63	
10448	RGD1562381	-1.38	1	1.19	1	0.86	
10449	RGD1564138	-1.38	2	1.12	1	0.82	
10450	Rhoh	-1.38	6	0.33	3	0.24	
10451	Rin3	-1.38	33	1.41	19	1.03	
10452	Rn60_15_0538.1	-1.38	2	0.6	1	0.43	
10453	Rpusd4	-1.38	51	4.98	29	3.62	
10454	Rrm2b	-1.38	22	2.49	20	1.81	
10455	Sall3	-1.38	2	0.1	1	0.07	
10456	Sec14l4	-1.38	8	0.06	1	0.04	
10457	Sh2d5	-1.38	3	0.13	2	0.1	
10458	She	-1.38	3	0.3	3	0.22	
10459	Sim1	-1.38	1	0.06	2	0.05	
10460	Slc19a2	-1.38	66	3.03	35	2.2	
10461	Slc26a8	-1.38	49	1.75	48	1.27	
10462	Slc7a6os	-1.38	123	17.33	60	12.59	
10463	Slc9a7	-1.38	222	1.75	103	1.27	
10464	Smndc1	-1.38	142	12.29	70	8.93	
10465	SNORA73_10	-1.38	2	2.33	1	1.69	
10466	SNORD88_2	-1.38	2	5.48	1	3.98	
10467	Snx7	-1.38	102	12.52	53	9.09	
10468	Sptbn4	-1.38	9	0.06	6	0.04	
10469	Sstr1	-1.38	2	0.13	1	0.09	
10470	Stard8	-1.38	18	0.71	10	0.52	
10471	Steap4	-1.38	4	0.15	4	0.11	

Supplemental Table 2
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	A	B	C	D	E	F	G
10472	Stk32c	-1.38	6	0.23	8	0.17	
10473	Sult1d1	-1.38	3	0.19	2	0.14	
10474	Tbx1	-1.38	2	0.27	1	0.2	
10475	Tbx19	-1.38	19	0.39	9	0.28	
10476	Timp1	-1.38	120	80.81	75	58.71	
10477	Tmem106a	-1.38	27	2.52	12	1.83	
10478	Tmem194	-1.38	9	2.09	3	1.52	
10479	Tmem88	-1.38	10	1.91	5	1.39	
10480	Tmprss5	-1.38	3	0.21	6	0.15	
10481	Tomm40	-1.38	154	33.04	83	24	
10482	Trim50	-1.38	4	0.24	5	0.18	
10483	Ttc30a1	-1.38	2	0.41	1	0.3	
10484	Uba7	-1.38	10	0.57	10	0.41	
10485	Wisp2	-1.38	14	1.1	5	0.8	
10486	Zfp111	-1.38	0	0.22	0	0.16	
10487	Zfp385d	-1.38	79	1.44	51	1.04	
10488	5S_rRNA_259	-1.38	0	4.19	0	3.04	
10489	AABR07014259.1	-1.38	1	2.44	1	1.77	
10490	AABR07018970.1	-1.38	1	0.58	0	0.42	
10491	AABR07021465.2	-1.38	4	1.29	2	0.94	
10492	AABR07030156.1	-1.38	2	2.08	0	1.51	
10493	AABR07030897.1	-1.38	2	0.14	2	0.1	
10494	AABR07048271.1	-1.38	2	1.03	4	0.74	
10495	AABR07049960.1	-1.38	0	0.82	0	0.6	
10496	AABR07051374.1	-1.38	0	2.39	0	1.74	
10497	AABR07053152.1	-1.38	2	6.23	1	4.53	
10498	AABR07059786.1	-1.38	1	0.74	0	0.54	
10499	AABR07066516.1	-1.38	6	1.94	2	1.41	
10500	AABR07067506.1	-1.38	0	1.08	0	0.78	
10501	AABR07073453.1	-1.38	11	0.49	4	0.35	
10502	Aaed1	-1.38	215	3.87	114	2.81	
10503	AC120310.1	-1.38	0	0.74	0	0.54	
10504	Acer1	-1.38	5	0.21	2	0.15	
10505	Acyp2	-1.38	16	1.31	16	0.95	
10506	Adam4	-1.38	2	0.2	1	0.15	
10507	Adamts1	-1.38	18	0.26	19	0.19	
10508	Adamts14	-1.38	18	0.72	7	0.52	
10509	Amt	-1.38	13	0.82	7	0.6	
10510	Anks4b	-1.38	4	0.55	2	0.4	
10511	Apip	-1.38	16	2.06	6	1.49	
10512	Apol9a	-1.38	0	0.93	1	0.67	
10513	Aqp11	-1.38	4	0.39	1	0.28	
10514	Atxn7l4	-1.38	135	2.64	114	1.92	
10515	Avpr1a	-1.38	2	0.26	1	0.19	
10516	AY172581.23	-1.38	2	7.33	1	5.32	
10517	Cacna1e	-1.38	135	0.07	46	0.05	
10518	Ccdc73	-1.38	7	0.14	5	0.1	
10519	Cd8b	-1.38	2	0.34	1	0.25	
10520	Cdc45	-1.38	63	1.48	30	1.08	
10521	Cdkn2c	-1.38	24	2.78	9	2.02	
10522	Cend1_1	-1.38	1	0.3	1	0.22	
10523	Cetn4	-1.38	2	0.99	1	0.72	
10524	Chd5	-1.38	4	0.13	3	0.1	
10525	Cntnap5a	-1.38	2129	0.13	2569	0.09	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
10526	Col1a2	-1.38	0	2.56	0	1.86	
10527	Col23a1_1	-1.38	0	0.42	0	0.3	
10528	Cpne2	-1.38	66	7.26	30	5.27	
10529	Cpvl	-1.38	12	0.19	6	0.13	
10530	Dazl	-1.38	2	0.17	1	0.13	
10531	Dffa	-1.38	112	7.17	61	5.21	
10532	Dnmt3b	-1.38	18	0.61	13	0.44	
10533	Doc2a	-1.38	1	0.34	1	0.25	
10534	Dok5	-1.38	6	0.31	11	0.23	
10535	Dpm3	-1.38	22	12.65	10	9.19	
10536	Duxbl1	-1.38	8	0.25	6	0.18	
10537	Eif1ad	-1.38	84	6.84	42	4.97	
10538	Eml5	-1.38	70	0.69	41	0.5	
10539	Fam185a	-1.38	3	0.95	1	0.69	
10540	Fgd4	-1.38	72	1.64	40	1.19	
10541	Fignl1	-1.38	9	0.86	6	0.63	
10542	Gab2	-1.38	484	26.49	263	19.25	
10543	Gabra1	-1.38	2	0.11	2	0.08	
10544	Gdf15	-1.38	6	1.64	3	1.19	
10545	Hcls1	-1.38	3	0.26	2	0.19	
10546	Igf2bp1	-1.38	7	0.24	2	0.17	
10547	Il13ra2	-1.38	5	0.19	2	0.14	
10548	Il17rd	-1.38	14	0.31	5	0.22	
10549	Ing2	-1.38	45	3.46	22	2.51	
10550	Kl	-1.38	4	0.13	2	0.09	
10551	Knop1_1	-1.38	0	0.44	0	0.32	
10552	Lactb2	-1.38	49	8.71	24	6.33	
10553	Lax1	-1.38	2	0.23	2	0.16	
10554	Lcn2	-1.38	4	1.12	2	0.81	
10555	Leng9	-1.38	14	2.39	11	1.74	
10556	LOC100302465	-1.38	12	0.16	6	0.12	
10557	LOC100359574	-1.38	0	2.58	0	1.87	
10558	LOC100359668	-1.38	0	0.9	0	0.66	
10559	LOC100910721_2	-1.38	0	1.1	0	0.8	
10560	LOC100910807	-1.38	1	0.39	1	0.28	
10561	LOC100912008	-1.38	3	1.01	2	0.74	
10562	LOC679247	-1.38	5	0.72	2	0.52	
10563	LOC679565	-1.38	0	0.33	0	0.24	
10564	Lurap1	-1.38	13	2.12	6	1.54	
10565	Mettl1	-1.38	32	3.35	17	2.43	
10566	Mlf1	-1.38	4	0.45	3	0.33	
10567	Mrpl43	-1.38	64	19.21	34	13.96	
10568	Mterf	-1.38	35	3.65	21	2.65	
10569	Ncan	-1.38	3	0.1	2	0.07	
10570	Ncapg2	-1.38	106	3.19	61	2.31	
10571	Ndufa13_1	-1.38	2	1.16	1	0.84	
10572	Nhs12	-1.38	12	0.79	6	0.58	
10573	Nlrp9	-1.38	7	0.33	3	0.24	
10574	Npm2	-1.38	5	1.6	2	1.16	
10575	Nr6a1	-1.38	19	1.89	20	1.37	
10576	Ntrk2	-1.38	13	0.05	9	0.03	
10577	Nup210l	-1.38	37	0.09	20	0.06	
10578	Nupl1	-1.38	204	12.47	100	9.06	
10579	Parp16	-1.38	33	2.57	17	1.87	

Supplemental Table 2
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	A	B	C	D	E	F	G
10580	Pcdhb9	-1.38	10	0.79	4	0.57	
10581	Pfkfb1	-1.38	7	0.25	3	0.18	
10582	Prkag3	-1.38	10	0.55	3	0.4	
10583	Prokr1	-1.38	2	0.17	1	0.12	
10584	RGD1307461	-1.38	3	0.17	2	0.12	
10585	RGD1562402	-1.38	1	1.08	0	0.78	
10586	RGD1563045	-1.38	0	0.62	1	0.45	
10587	RGD1564552	-1.38	2	1.03	0	0.75	
10588	Rn60_15_0083.1	-1.38	0	0.64	0	0.47	
10589	Rn60_20_0055.3	-1.38	1	1.84	0	1.34	
10590	Rn60_2_0094.1	-1.38	0	0.37	0	0.27	
10591	Rn60_X_0752.3	-1.38	215	61.03	111	44.34	
10592	Sall4	-1.38	2	0.16	1	0.11	
10593	Serinc2	-1.38	4	0.55	2	0.4	
10594	Slc29a2	-1.38	0	1.09	0	0.79	
10595	Slc38a6	-1.38	58	1.29	28	0.94	
10596	Sncaip	-1.38	23	0.48	8	0.35	
10597	snopsi28S-3327	-1.38	0	7.27	0	5.29	
10598	SNORD31	-1.38	4	14.88	2	10.81	
10599	Spaca5	-1.38	3	0.9	5	0.65	
10600	Spock3	-1.38	8	0.15	4	0.11	
10601	Srrd	-1.38	37	8.07	23	5.86	
10602	Ssu72	-1.38	253	30.73	154	22.32	
10603	Stab1	-1.38	2	0.07	2	0.05	
10604	Susd5	-1.38	5	0.27	2	0.19	
10605	Sytl2_2	-1.38	0	0.44	0	0.32	
10606	Tchhl1	-1.38	2	0.27	1	0.19	
10607	Tcte3	-1.38	5	0.67	1	0.49	
10608	Tdrd5	-1.38	5	0.29	3	0.21	
10609	Tgif2-ps1	-1.38	0	0.7	0	0.51	
10610	Thbd	-1.38	16	1.09	8	0.79	
10611	Tmem132b	-1.38	119	0.18	67	0.13	
10612	Tmem255b	-1.38	4	0.49	1	0.36	
10613	Tmem86b	-1.38	3	0.32	1	0.23	
10614	Tom11i	-1.38	46	4.59	38	3.33	
10615	Tram11i	-1.38	2	0.23	1	0.17	
10616	Trim32	-1.38	0	0.63	0	0.46	
10617	Tub	-1.38	5	0.29	1	0.21	
10618	Tyro3	-1.38	50	3.21	28	2.33	
10619	Upp1	-1.38	5	0.24	4	0.18	
10620	Ybey	-1.38	16	0.79	10	0.57	
10621	Zfp804a	-1.38	4	0.14	1	0.1	
10622	Zfp93	-1.38	4	0.24	3	0.17	
10623	Zkscan4	-1.38	16	3.36	8	2.44	
10624	Zscan20	-1.38	42	1.74	26	1.26	
10625	Zscan29	-1.38	11	0.39	12	0.29	
10626	Sar1a	-1.38	1040	58.23	557	42.27	
10627	Col5a1	-1.38	2263	79.46	1088	57.65	
10628	Cltc	-1.38	2478	98.86	1239	71.65	
10629	Pdzd8	-1.38	294	8.78	149	6.35	
10630	Armcx2	-1.38	670	50.59	334	36.59	
10631	Safb	-1.38	274	17.43	150	12.61	
10632	Tnfaip1	-1.38	847	52.44	431	37.91	
10633	Ltn1	-1.38	373	11.69	193	8.44	

Supplemental Table 2
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	A	B	C	D	E	F	G
10634	Polr2m_1	-1.38	379	29.09	190	21.01	
10635	Fam98a	-1.38	184	15.12	93	10.92	
10636	RGD1565297	-1.39	308	71.53	156	51.63	
10637	Impa1	-1.39	176	18.15	97	13.1	
10638	Spag7	-1.39	150	27.48	84	19.82	
10639	Ppil4	-1.39	167	11.09	80	7.99	
10640	Foxk2	-1.39	484	20.98	272	15.12	
10641	Ss18	-1.39	589	40.32	321	29.05	
10642	Sarnp	-1.39	181	26.71	122	19.25	
10643	Stip1	-1.39	697	80.41	370	57.9	
10644	Ppid	-1.39	146	23.95	60	17.24	
10645	Nifk	-1.39	110	17.86	53	12.85	
10646	Stx4	-1.39	242	44.29	114	31.86	
10647	Aff4	-1.39	1340	35.41	664	25.46	
10648	Mmp23	-1.39	394	50.02	194	35.95	
10649	Gbe1	-1.39	235	16.08	108	11.56	
10650	Pgk1	-1.39	636	94.93	304	68.22	
10651	Cat	-1.39	502	44.85	248	32.23	
10652	Ddx3x	-1.39	1656	89.1	824	63.99	
10653	Fam111a	-1.39	90	6.79	44	4.88	
10654	Xpo6	-1.39	505	22.21	256	15.95	
10655	Sh3glb1	-1.39	762	34.83	420	25.02	
10656	Gltscr1	-1.39	195	7.59	97	5.45	
10657	Dkc1	-1.39	472	51.88	262	37.23	
10658	Sp2	-1.39	112	6.16	55	4.42	
10659	Nfu1	-1.39	111	17.75	69	12.73	
10660	Akt1	-1.39	959	94.39	472	67.68	
10661	Mlx	-1.39	167	19.38	83	13.89	
10662	Kpna3	-1.4	255	26.78	129	19.19	
10663	Wdr75	-1.4	191	13.29	91	9.52	
10664	Entpd1	-1.4	67	3.75	28	2.68	
10665	Evc2	-1.4	102	4.36	59	3.12	
10666	Klhdc4_1	-1.4	70	14.71	34	10.53	
10667	Serpib6	-1.4	286	52.01	150	37.25	
10668	B3gnt2	-1.4	295	23.44	151	16.78	
10669	Cinp	-1.4	90	11.7	70	8.37	
10670	Fkbp3	-1.4	169	29.02	89	20.78	
10671	Nup205	-1.4	372	13.48	188	9.65	
10672	Rbms2	-1.4	258	32.01	131	22.9	
10673	Scyl3	-1.4	90	5.46	57	3.91	
10674	Capza2	-1.4	445	41.98	213	30.03	
10675	Atp11c	-1.4	79	4.38	46	3.13	
10676	Mvk	-1.4	82	13.21	49	9.45	
10677	Rif1	-1.4	287	8.66	152	6.19	
10678	Flot2	-1.4	504	39.39	266	28.16	
10679	Ppp1r13b	-1.4	212	12.47	110	8.91	
10680	AABR07043748.1	-1.4	53	10.98	29	7.84	
10681	Focad	-1.4	159	4.17	90	2.98	
10682	Far1	-1.4	272	10.3	150	7.36	
10683	Ndufaf4	-1.4	61	4.81	29	3.44	
10684	Pi4k2b	-1.4	117	8.57	62	6.12	
10685	Cdk2ap1	-1.4	528	95.93	251	68.52	
10686	Tmem183a	-1.4	312	30.26	176	21.6	
10687	Pten	-1.4	371	43.62	187	31.14	

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	A	B	C	D	E	F	G
10688	Pdcd11	-1.4	551	18.76	283	13.39	
10689	Arih1	-1.4	646	24.22	332	17.28	
10690	Denr	-1.4	110	23.55	51	16.8	
10691	Hs3st1	-1.4	219	15.72	102	11.21	
10692	LOC679894	-1.4	53	2.56	26	1.82	
10693	Ube2q2	-1.4	83	11.68	46	8.32	
10694	Zbtb7b	-1.4	167	15.99	80	11.39	
10695	Dnaaf2	-1.4	56	5.11	28	3.64	
10696	Mettl16	-1.4	72	6.33	45	4.51	
10697	Sfxn3	-1.4	663	58.96	323	41.97	
10698	Ddx1	-1.4	567	53.88	278	38.35	
10699	Haus5	-1.41	67	2.4	34	1.71	
10700	Chchd3	-1.41	185	24.35	131	17.33	
10701	Tbc1d1	-1.41	250	8.22	142	5.85	
10702	Lrrc42	-1.41	333	34.8	180	24.75	
10703	Fam83h	-1.41	98	4.92	57	3.5	
10704	Hsd3b7	-1.41	109	13.05	54	9.28	
10705	RGD1565616	-1.41	525	17.07	351	12.14	
10706	Epha2	-1.41	857	50.24	414	35.72	
10707	Rrp9	-1.41	99	14.39	54	10.23	
10708	Pfdn1	-1.41	250	41.23	122	29.29	
10709	Arid4a	-1.41	115	4.05	58	2.87	
10710	Hnrnpf	-1.41	1120	125.64	507	89.21	
10711	Sc5d	-1.41	490	24.57	238	17.45	
10712	Eif5b	-1.41	91	21	56	14.91	
10713	Rpf2	-1.41	58	8.57	34	6.08	
10714	Cln3	-1.41	250	13.66	123	9.69	
10715	Fzd1	-1.41	756	43.05	367	30.54	
10716	Tex10	-1.41	159	8	85	5.67	
10717	G3bp2	-1.41	376	44.28	199	31.4	
10718	Psm14	-1.41	242	32.25	121	22.86	
10719	Ptprg	-1.41	236	9.92	134	7.03	
10720	Calm2	-1.41	361	83.06	173	58.86	
10721	Zfyve16	-1.41	224	8.62	120	6.11	
10722	AC109958.1	-1.41	39	21.3	19	15.09	
10723	Rock1	-1.41	503	18.42	268	13.05	
10724	Ccdc58	-1.41	69	7.99	40	5.66	
10725	Hsd17b12	-1.41	262	29.06	128	20.56	
10726	Rbm17	-1.41	161	25.11	92	17.77	
10727	Fbxw7	-1.41	100	5.24	50	3.71	
10728	Dmwd	-1.41	120	11.9	60	8.41	
10729	Ndufb9	-1.41	187	65.48	93	46.29	
10730	Map2k1	-1.41	310	31.95	158	22.58	
10731	Mgea5	-1.41	668	30.54	367	21.58	
10732	Babam1	-1.42	158	27.03	81	19.1	
10733	Antxr2	-1.42	128	18.51	69	13.08	
10734	Arpc5l	-1.42	108	21.49	74	15.18	
10735	Ryk	-1.42	583	70.8	293	50.01	
10736	Spr	-1.42	44	13.22	15	9.34	
10737	Mrps24	-1.42	75	20.46	36	14.45	
10738	Oxct1	-1.42	467	32.31	238	22.83	
10739	Spop	-1.42	197	13.62	116	9.62	
10740	Larp1	-1.42	674	47.43	342	33.5	
10741	Nucks1	-1.42	233	35.9	117	25.35	

Supplemental Table 2
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	A	B	C	D	E	F	G
10742	RGD1563348	-1.42	41	13.33	24	9.41	
10743	Zfp64	-1.42	155	10.55	83	7.44	
10744	Pfdn4	-1.42	119	34.84	58	24.59	
10745	Aco1	-1.42	909	60.26	451	42.53	
10746	Arpc3	-1.42	375	95.58	179	67.44	
10747	Prpf31	-1.42	109	10.68	55	7.53	
10748	Cxadr	-1.42	812	31.49	374	22.21	
10749	Lrch3	-1.42	54	7.33	31	5.17	
10750	Mtr	-1.42	181	7.36	96	5.19	
10751	Whamm	-1.42	103	5.95	50	4.19	
10752	Arhgef12	-1.42	508	19.31	279	13.61	
10753	Pgrmc2	-1.42	341	40.78	153	28.74	
10754	Dgcr6	-1.42	49	5.45	26	3.84	
10755	Gtf2h5_1	-1.42	65	9.94	32	7	
10756	Pard6b	-1.42	113	7.49	53	5.28	
10757	Mtmr2	-1.42	335	32.18	166	22.66	
10758	Fam104a	-1.42	173	17.04	85	11.99	
10759	Atpif1	-1.42	138	61.69	68	43.42	
10760	Commd6	-1.42	103	17.54	56	12.35	
10761	Cops3	-1.42	338	43.97	183	30.94	
10762	Sacm1l	-1.42	255	16.25	154	11.43	
10763	Arf4	-1.42	1100	155.13	520	109.09	
10764	Tonsl	-1.42	37	1.82	17	1.28	
10765	Eif3c	-1.42	1524	124.25	746	87.3	
10766	Glr3	-1.42	293	44.14	152	31.01	
10767	Ppm1a	-1.42	232	20.58	141	14.45	
10768	AABR07073038.1	-1.42	711	165.18	341	115.94	
10769	Dhrsx	-1.43	91	8.79	63	6.16	
10770	Exph5	-1.43	37	0.76	22	0.54	
10771	Gng2	-1.43	29	2.1	14	1.48	
10772	Fam46a	-1.43	113	9.1	55	6.38	
10773	Xpot	-1.43	392	17.96	198	12.58	
10774	LOC688932	-1.43	2	7.2	1	5.04	
10775	Pdgfa	-1.43	86	7.38	33	5.17	
10776	Mrpl19	-1.43	58	11.94	27	8.36	
10777	Nudc	-1.43	265	47.47	140	33.24	
10778	Arhgap1	-1.43	720	56	347	39.19	
10779	AABR07058267.1	-1.43	27	14.37	13	10.06	
10780	Rpp38	-1.43	37	5.64	17	3.95	
10781	Slc22a15	-1.43	40	1.99	22	1.39	
10782	Zfyve19	-1.43	76	8.61	38	6.02	
10783	Btbd19	-1.43	35	2.21	18	1.55	
10784	Gart	-1.43	297	19.82	148	13.86	
10785	Vps26b	-1.43	491	31.7	227	22.17	
10786	Apc	-1.43	432	11.31	214	7.91	
10787	Tmem254	-1.43	85	14.25	41	9.96	
10788	Wibg	-1.43	114	16.91	74	11.82	
10789	Gnl2	-1.43	233	11.05	107	7.72	
10790	Fam20c	-1.43	288	19.74	140	13.79	
10791	Tpbg	-1.43	578	60.19	272	42.05	
10792	Xrcc5	-1.43	74	5.05	43	3.53	
10793	Dcun1d5	-1.43	131	15.91	77	11.11	
10794	Rpl26	-1.43	170	170.71	182	119.17	
10795	Akirin1	-1.43	182	16.01	91	11.17	

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	A	B	C	D	E	F	G
10796	Dnaja2	-1.43	367	44.33	178	30.93	
10797	Naa15	-1.43	458	16.64	242	11.61	
10798	Fam118a	-1.43	73	4.33	34	3.02	
10799	Rps6	-1.43	0	16.75	0	11.68	
10800	AC126537.1	-1.43	15	3.74	9	2.61	
10801	LOC100911840	-1.43	2	6.14	2	4.28	
10802	Psmc3ip	-1.43	29	6.83	14	4.76	
10803	RGD1310335	-1.43	31	2.28	13	1.59	
10804	Cyp20a1	-1.43	169	15.45	83	10.77	
10805	Brsk1	-1.44	124	9.33	64	6.5	
10806	Fam65a	-1.44	396	13.01	214	9.05	
10807	Pacsin3	-1.44	83	9.8	39	6.82	
10808	Plcb4	-1.44	396	11.88	227	8.26	
10809	Tab2	-1.44	633	31.54	309	21.93	
10810	Eif4a2	-1.44	1184	103.79	557	72.13	
10811	Ccdc34	-1.44	30	2.27	16	1.57	
10812	Mcm2c2	-1.44	62	2.24	52	1.55	
10813	Mdn1	-1.44	510	5.96	248	4.14	
10814	Slc18a2	-1.44	43	1.97	20	1.37	
10815	Gnb1	-1.44	1212	198.71	550	138.02	
10816	Ndufa8	-1.44	163	39.03	84	27.11	
10817	Hn1l	-1.44	358	30.48	176	21.17	
10818	Kif2a	-1.44	352	31.62	189	21.94	
10819	Gfm1	-1.44	135	10.8	61	7.5	
10820	Tulp4	-1.44	752	29.62	431	20.55	
10821	Tpr	-1.44	818	26.28	390	18.23	
10822	Dnajc27	-1.44	48	2.26	25	1.56	
10823	Trim44	-1.44	53	7.89	40	5.47	
10824	Dock4	-1.44	408	11.06	216	7.67	
10825	Pafah1b3	-1.44	113	25.87	52	17.93	
10826	Smc2	-1.44	238	10.11	115	7.01	
10827	Rps8	-1.44	205	440.69	165	305.37	
10828	Uqcrb	-1.44	62	20.82	31	14.43	
10829	Ptp4a2	-1.44	441	86.41	209	59.86	
10830	RGD1305178	-1.44	131	14.54	64	10.07	
10831	Mex3d	-1.44	253	22.59	117	15.65	
10832	Ndufs5	-1.45	61	40.17	37	27.8	
10833	Exosc8	-1.45	35	2.87	23	1.99	
10834	Hccs	-1.45	88	8.73	40	6.04	
10835	LOC102553119	-1.45	51	3.07	25	2.13	
10836	Ophn1	-1.45	319	12.91	184	8.93	
10837	Pter	-1.45	41	2.52	25	1.74	
10838	Reep1	-1.45	28	1.42	17	0.98	
10839	Tamm41	-1.45	71	8.79	48	6.09	
10840	Gpkow	-1.45	204	11.54	96	7.98	
10841	Lix1l	-1.45	326	20.23	153	13.98	
10842	Pwp2	-1.45	193	11.81	92	8.16	
10843	Sept2	-1.45	1190	110.18	595	76.14	
10844	Gas2l1	-1.45	116	9.24	53	6.38	
10845	Rrp7a	-1.45	23	5.54	8	3.82	
10846	Ergic1	-1.45	950	73.26	428	50.58	
10847	Nop2	-1.45	116	17.19	58	11.87	
10848	Polr3g	-1.45	55	2.99	28	2.06	
10849	Pus3	-1.45	41	5.91	20	4.08	

Supplemental Table 2
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	A	B	C	D	E	F	G
10850	Calu	-1.45	2725	191.08	1283	131.87	
10851	Prpf3	-1.45	237	18.58	124	12.82	
10852	Pafah1b2	-1.45	424	49.86	208	34.38	
10853	Arfp2	-1.45	172	21.91	95	15.1	
10854	Btf3	-1.45	280	198.72	140	136.98	
10855	Qk	-1.45	706	34.84	434	24	
10856	Fam195b	-1.45	171	37.58	86	25.88	
10857	Ccm2	-1.45	324	28.81	167	19.84	
10858	Aldh1a7	-1.45	12	3.16	9	2.17	
10859	Mrps10	-1.45	40	7.69	18	5.29	
10860	RT1-N3	-1.45	16	2.62	9	1.8	
10861	Utp23	-1.45	45	8.4	19	5.78	
10862	RGD1308139	-1.45	45	6.58	29	4.53	
10863	Ddx21	-1.45	385	35.55	198	24.47	
10864	Preli1	-1.45	275	92.71	111	63.79	
10865	Ddx27	-1.45	193	15.68	102	10.79	
10866	Smc4	-1.45	206	9.93	90	6.83	
10867	Txndc9	-1.45	166	26.28	80	18.07	
10868	Emc10	-1.45	345	51.52	166	35.43	
10869	Spag9	-1.46	1234	34.33	615	23.59	
10870	AABR07043421.1	-1.46	11	4.94	5	3.39	
10871	Ubxn8	-1.46	87	3.9	32	2.68	
10872	Mrpl40	-1.46	60	5.71	28	3.92	
10873	Ino80	-1.46	289	10.71	146	7.35	
10874	Ptpn9	-1.46	486	28.53	249	19.58	
10875	Zscan22	-1.46	37	6.03	18	4.14	
10876	Nrde2	-1.46	81	5.03	48	3.45	
10877	Vti1a	-1.46	121	3.29	75	2.26	
10878	Fryl	-1.46	907	18.94	471	12.99	
10879	Zswim6	-1.46	197	16.56	90	11.36	
10880	Cox5b	-1.46	284	155.99	118	106.97	
10881	Kihl2	-1.46	142	7.33	71	5.03	
10882	Mfsd6	-1.46	103	4.46	51	3.06	
10883	LOC100911516	-1.46	0	19.31	0	13.23	
10884	Anapc13	-1.46	14	21.44	10	14.69	
10885	Nmnat1	-1.46	71	6.28	42	4.3	
10886	Vcan	-1.46	2737	55.3	1277	37.89	
10887	Fbxo30	-1.46	167	12.2	78	8.36	
10888	Mtmt4	-1.46	558	23.03	264	15.77	
10889	Nr3c1_1	-1.46	276	13.64	131	9.34	
10890	Rabggtb	-1.46	342	35.89	153	24.57	
10891	Cbl	-1.46	169	11.3	91	7.73	
10892	Nup62	-1.46	425	38.05	200	26.04	
10893	Osbpl8	-1.46	385	12.38	188	8.47	
10894	Fam206a	-1.46	19	4.35	9	2.98	
10895	Birc5	-1.46	27	4.85	16	3.32	
10896	Dnajc1	-1.46	106	6.8	68	4.65	
10897	Fam204a	-1.46	39	4.01	20	2.74	
10898	Fgfr1op2	-1.46	197	11.6	92	7.93	
10899	Flt4	-1.46	19	0.74	8	0.51	
10900	Mss51	-1.46	62	2.67	35	1.82	
10901	Slc25a27	-1.46	27	1.08	14	0.74	
10902	Tspan18	-1.46	27	1.14	16	0.78	
10903	Tpi1	-1.46	7	192.74	7	131.64	

Supplemental Table 2
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	A	B	C	D	E	F	G
10904	St6galnac3	-1.46	286	7.08	102	4.83	
10905	Srsf2	-1.46	902	89	416	60.76	
10906	lws1	-1.47	192	13.91	118	9.49	
10907	U2af2	-1.47	553	69.46	316	47.38	
10908	Zdhhc9	-1.47	106	8.27	49	5.64	
10909	Hars2	-1.47	119	7.19	67	4.9	
10910	LOC100911515	-1.47	2	57.32	2	39.09	
10911	Btg3	-1.47	169	24.5	74	16.71	
10912	Zc3h7a	-1.47	414	16.39	195	11.17	
10913	Heatr5a	-1.47	595	16.26	284	11.08	
10914	Hgs	-1.47	597	38.95	287	26.56	
10915	Gemin7	-1.47	41	7.73	19	5.27	
10916	Slirp	-1.47	34	2.83	21	1.93	
10917	Ap3s1	-1.47	98	12.41	47	8.45	
10918	Bid	-1.47	52	4	24	2.73	
10919	Hspa8	-1.47	0	3.81	0	2.59	
10920	Wrnip1	-1.47	128	10.6	57	7.21	
10921	Chd1	-1.47	341	13.11	164	8.93	
10922	Midn	-1.47	795	56.16	366	38.21	
10923	Sec24d	-1.47	637	40.17	302	27.33	
10924	Ckap2	-1.47	48	4.59	29	3.12	
10925	Smarcd3	-1.47	374	42	205	28.57	
10926	Smim1	-1.47	92	25.85	41	17.58	
10927	Ttc33	-1.47	58	6.54	32	4.45	
10928	Ykt6	-1.47	180	32.03	82	21.78	
10929	Calm1	-1.47	1544	260.17	722	176.91	
10930	Cd3eap	-1.47	60	7.57	29	5.15	
10931	Rbm8a	-1.47	189	31.19	88	21.2	
10932	Zfp276	-1.47	94	6.1	44	4.14	
10933	Sestd1	-1.47	260	19.98	144	13.57	
10934	LOC683884	-1.47	129	7.49	70	5.09	
10935	Ube2i	-1.47	225	120.67	94	81.98	
10936	Agtppb1	-1.47	132	4.99	78	3.39	
10937	Ubfd1	-1.47	116	7.58	53	5.15	
10938	Gsn	-1.47	398	34.37	182	23.34	
10939	LOC499235	-1.47	273	23.8	137	16.16	
10940	Upf3a	-1.47	156	16.93	70	11.49	
10941	Camk2d	-1.47	541	24.47	270	16.61	
10942	AABR07019086.1	-1.47	14	0.91	11	0.62	
10943	AABR07021996.1	-1.47	33	2.06	14	1.4	
10944	Asxl3	-1.47	19	0.56	14	0.38	
10945	Daam2	-1.47	22	1.11	12	0.76	
10946	Hmgcll1	-1.47	44	0.97	24	0.65	
10947	LOC100361103_2	-1.47	119	170.24	60	115.44	
10948	Lsm2	-1.47	12	3.95	4	2.68	
10949	Mtrf1l	-1.47	27	3.06	24	2.07	
10950	Rbm25	-1.47	26	15.77	20	10.69	
10951	Steap2	-1.47	86	5.37	42	3.64	
10952	Tbrg4	-1.47	183	16.19	82	10.98	
10953	Timp3	-1.47	22	4.28	11	2.9	
10954	Preli2	-1.47	62	2.39	31	1.62	
10955	Clock	-1.48	287	7.09	139	4.81	
10956	Fam3c	-1.48	277	26.27	127	17.8	
10957	Usp6nl	-1.48	655	24.67	307	16.72	

Supplemental Table 2
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	A	B	C	D	E	F	G
10958	Sri	-1.48	176	47.95	86	32.49	
10959	Fasn	-1.48	2981	80.57	1375	54.55	
10960	Zswim4	-1.48	194	7.91	79	5.35	
10961	Synpo	-1.48	558	35.14	265	23.76	
10962	Cdca2	-1.48	53	2.94	26	1.99	
10963	Cdk1	-1.48	186	30.37	88	20.53	
10964	Serpinb9	-1.48	490	67.73	243	45.76	
10965	Smad1	-1.48	240	13.12	101	8.87	
10966	Gid8	-1.48	235	39.7	107	26.82	
10967	Hipk2	-1.48	398	15.36	187	10.37	
10968	Rpl35	-1.48	380	262.02	184	176.98	
10969	Cep95	-1.48	119	5.99	61	4.05	
10970	Naca	-1.48	942	33.74	440	22.79	
10971	Sprtn	-1.48	81	9.06	38	6.12	
10972	Vat1	-1.48	1303	113.75	590	76.82	
10973	Tbc1d8b	-1.48	191	7.43	88	5.02	
10974	AABR07042359.1	-1.48	12	308.3	13	208.15	
10975	Ddx18	-1.48	173	17.98	78	12.14	
10976	Wdr43	-1.48	248	15.32	124	10.34	
10977	LOC100360573_2	-1.48	10	34.97	5	23.59	
10978	Snrpf	-1.48	34	8.22	14	5.54	
10979	Cfap20	-1.48	116	17.74	49	11.97	
10980	Cyb561d2	-1.48	30	4.74	14	3.2	
10981	Cyb5r3	-1.48	400	50.58	185	34.13	
10982	Ncl	-1.48	393	78.17	235	52.73	
10983	Anxa4	-1.48	269	29.25	129	19.73	
10984	Mtss1l	-1.48	224	13.08	96	8.82	
10985	Stard3nl	-1.48	136	18.82	69	12.69	
10986	Chaf1a	-1.48	107	8.02	60	5.4	
10987	Arpc5	-1.48	429	60.46	201	40.75	
10988	Rc3h1	-1.48	375	12.47	195	8.4	
10989	Tma16	-1.49	55	3	25	2.02	
10990	Cenpc	-1.49	112	5.89	46	3.97	
10991	LOC100362620	-1.49	50	16.61	18	11.19	
10992	Col4a4	-1.49	1844	37.94	829	25.54	
10993	Cdk7	-1.49	135	17.29	82	11.64	
10994	Camsap1	-1.49	493	15.89	256	10.69	
10995	Scand1	-1.49	64	17.57	33	11.82	
10996	Thg1l	-1.49	65	5.78	33	3.89	
10997	Ddx31	-1.49	122	3.24	52	2.18	
10998	Hic2	-1.49	61	2.98	28	2	
10999	Myo5a	-1.49	157	6.27	82	4.21	
11000	Phf20	-1.49	231	15.28	118	10.27	
11001	Rn60_1_2787.1	-1.49	62	6.45	33	4.33	
11002	Smarca2	-1.49	540	15.81	268	10.62	
11003	Bdp1	-1.49	294	7.72	141	5.18	
11004	Sh3tc1	-1.49	175	7.68	76	5.16	
11005	Kpna4	-1.49	363	43.88	181	29.45	
11006	Chrdl1	-1.49	1350	35.86	619	24.07	
11007	Npap60_2	-1.49	209	17.32	95	11.63	
11008	Bcorl1	-1.49	235	8.12	115	5.45	
11009	Lzts2	-1.49	420	35.5	194	23.82	
11010	Ccdc163	-1.49	20	2.04	14	1.37	
11011	Hirip3	-1.49	94	10.33	46	6.93	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11012	Rnf4	-1.49	244	51.85	122	34.78	
11013	Taf5	-1.49	48	3	24	2.01	
11014	AABR07073045.1	-1.49	0	6.95	0	4.66	
11015	Ano1	-1.49	372	15.95	171	10.7	
11016	Emc2	-1.49	35	7.27	33	4.88	
11017	Fancg	-1.49	16	1.73	9	1.16	
11018	Fdx1l	-1.49	81	21.01	40	14.09	
11019	LOC100910646	-1.49	0	1.47	0	0.98	
11020	Nt5dc3	-1.49	60	5.03	27	3.38	
11021	Slc43a1	-1.49	58	5.34	26	3.58	
11022	Taf4a	-1.49	146	10.19	76	6.83	
11023	Arf1	-1.49	952	256.67	447	171.95	
11024	Ptbp1	-1.49	681	164.13	320	109.93	
11025	Zbtb1	-1.49	192	11.16	122	7.47	
11026	Nsun2	-1.49	342	16.13	156	10.79	
11027	Sft2d1	-1.49	192	30.99	101	20.73	
11028	Map9	-1.5	123	4.53	55	3.03	
11029	Spry2	-1.5	114	15.56	55	10.4	
11030	Ammecr1l	-1.5	438	21.95	197	14.68	
11031	Cmpk1	-1.5	209	25.43	109	17	
11032	Lsm6	-1.5	30	5.88	15	3.93	
11033	Socs6	-1.5	116	8.46	56	5.66	
11034	U2surp	-1.5	261	17.01	138	11.37	
11035	Gipc1	-1.5	309	33.98	149	22.68	
11036	LOC100233176	-1.5	106	14.17	59	9.46	
11037	Uba5	-1.5	244	15.58	116	10.4	
11038	Sptan1	-1.5	3128	92.72	1455	61.89	
11039	Ssh1	-1.5	207	9.67	127	6.46	
11040	LOC100910447	-1.5	284	65.3	136	43.58	
11041	Ddx39a	-1.5	261	24.07	131	16.06	
11042	Kif11	-1.5	105	5.16	53	3.44	
11043	Bag1	-1.5	234	34.86	117	23.25	
11044	Prdx5	-1.5	86	25.95	40	17.3	
11045	LOC100911822	-1.5	4	6.73	4	4.48	
11046	Serpib6b	-1.5	25	5.29	11	3.52	
11047	Tardbp	-1.5	707	54.65	299	36.37	
11048	Marveld1	-1.5	377	33.17	174	22.07	
11049	Uhmk1	-1.5	179	19.13	73	12.73	
11050	Ncbp2_1	-1.5	154	33.47	68	22.25	
11051	Pkd1	-1.5	1811	30.88	827	20.52	
11052	Agl	-1.51	186	5.76	87	3.83	
11053	Nop56	-1.51	331	36.6	145	24.32	
11054	Zfp334	-1.51	35	4.27	16	2.84	
11055	Psm6	-1.51	267	59.43	128	39.44	
11056	Naa10	-1.51	64	12.22	32	8.11	
11057	Capzb	-1.51	680	81.65	334	54.16	
11058	Ddx54	-1.51	278	20.99	130	13.92	
11059	Ccdc88c	-1.51	90	1.56	46	1.04	
11060	Hmox2	-1.51	164	14.6	88	9.68	
11061	Emp2	-1.51	164	12.58	77	8.33	
11062	Smg1	-1.51	982	19.92	464	13.18	
11063	C2cd2	-1.51	159	5.78	72	3.83	
11064	Ybx3	-1.51	613	73.36	292	48.57	
11065	Cct8	-1.51	693	64.44	317	42.66	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11066	Dennd4a	-1.51	123	2.97	64	1.97	
11067	Pitpnm2	-1.51	145	3.89	66	2.57	
11068	Adal	-1.51	11	1.71	7	1.13	
11069	Aebp2	-1.51	293	12.96	168	8.56	
11070	Chchd7	-1.51	14	10.62	5	7.02	
11071	Depdc1	-1.51	29	1.66	10	1.1	
11072	Eef1d	-1.51	396	44.84	184	29.62	
11073	Eva1b	-1.51	11	2.54	5	1.68	
11074	Katnbl1	-1.51	44	5.01	31	3.31	
11075	Rnmtl1	-1.51	25	3.72	11	2.46	
11076	Adamts4	-1.51	11	0.49	5	0.32	
11077	Baiap2l1	-1.51	257	14.48	102	9.57	
11078	Ccser2	-1.51	122	5.59	70	3.69	
11079	Dph6	-1.51	26	3.4	23	2.24	
11080	LOC100361993	-1.51	31	14.48	15	9.57	
11081	Nupl2	-1.51	81	3.38	40	2.23	
11082	RGD1565131	-1.51	5	4.41	2	2.92	
11083	RGD1566099	-1.51	20	3.25	7	2.15	
11084	Ripk3	-1.51	14	1.37	9	0.9	
11085	Sec61b	-1.51	187	78.03	89	51.54	
11086	Sh3bgr	-1.51	10	2.39	4	1.58	
11087	Zfp597	-1.51	23	4.35	11	2.87	
11088	AABR07055834.1	-1.51	11	1.45	6	0.96	
11089	Eif1	-1.51	877	228.34	434	150.78	
11090	Pamr1	-1.51	548	40.77	242	26.92	
11091	Atp5d	-1.51	339	34.22	154	22.59	
11092	LOC100362366	-1.52	31	141.61	21	93.46	
11093	Nktr	-1.52	697	23.91	322	15.78	
11094	Gga3	-1.52	219	10.23	109	6.75	
11095	Atp1b1	-1.52	786	69.21	360	45.67	
11096	Rpl23	-1.52	729	311.68	326	205.52	
11097	Kdelr3	-1.52	126	22.58	54	14.88	
11098	Arhgap17	-1.52	620	30.6	306	20.16	
11099	Rpl24	-1.52	1137	576.65	517	379.85	
11100	Golga4	-1.52	752	20.45	330	13.47	
11101	Gnl3	-1.52	217	20.4	86	13.42	
11102	Slc25a24	-1.52	247	14.9	116	9.81	
11103	Klc1	-1.52	406	26.89	194	17.68	
11104	Uspl1	-1.52	170	9.22	79	6.07	
11105	Slco3a1	-1.52	2538	96.27	1034	63.3	
11106	Atxn2l	-1.52	921	51.02	411	33.54	
11107	Arl2	-1.52	524	11.42	793	7.51	
11108	Dnajb5	-1.52	96	6.8	41	4.47	
11109	Vars	-1.52	587	34.8	267	22.88	
11110	Fam160a2	-1.52	215	7.17	108	4.71	
11111	Txn1	-1.52	452	66.62	200	43.75	
11112	Mdh2	-1.52	799	147.16	360	96.62	
11113	Ndufa11	-1.52	233	98.46	105	64.63	
11114	Shoc2	-1.52	302	22.47	144	14.75	
11115	Abcc5	-1.52	119	6.5	60	4.27	
11116	Crif3	-1.52	90	12.84	48	8.43	
11117	Ly9	-1.52	51	3.92	18	2.58	
11118	Pmm1	-1.52	78	12.92	35	8.48	
11119	Wdr54	-1.52	7	1.77	5	1.16	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11120	Cdc42se1	-1.52	344	30.85	157	20.24	
11121	Eri1	-1.52	149	12.5	72	8.2	
11122	Dtnb	-1.52	234	8.11	92	5.32	
11123	Ralb	-1.52	116	13.67	55	8.97	
11124	Pmpcb	-1.52	499	74.86	237	49.09	
11125	Kctd3	-1.53	373	21.42	175	14.04	
11126	Ola1	-1.53	219	27.22	107	17.85	
11127	Ccdc50	-1.53	220	25.94	112	16.99	
11128	Fam162a	-1.53	123	11.35	77	7.44	
11129	Mex3a	-1.53	87	14.01	33	9.17	
11130	Rap1b	-1.53	140	63.75	64	41.75	
11131	Myeov2	-1.53	113	56.91	56	37.25	
11132	Hnrnpa3_1	-1.53	75	74.75	38	48.91	
11133	Rheb	-1.53	327	58.18	138	38.06	
11134	Adgre5	-1.53	48	3.21	20	2.1	
11135	Ddx58	-1.53	45	5.56	22	3.63	
11136	Map3k14	-1.53	33	1.18	27	0.77	
11137	mrpl24	-1.53	129	15.63	82	10.22	
11138	Arhgap18	-1.53	220	19.63	118	12.83	
11139	Slc25a4	-1.53	832	158.38	370	103.57	
11140	Nans	-1.53	242	27.86	115	18.21	
11141	Txlna	-1.53	175	14.52	87	9.49	
11142	Tollip	-1.53	356	21.98	156	14.35	
11143	Hspa4	-1.53	1798	90.79	801	59.28	
11144	Kctd15	-1.53	74	6.47	32	4.22	
11145	Fpgs	-1.53	78	8.64	35	5.64	
11146	Zc3h11a	-1.53	1387	69.91	678	45.61	
11147	Syne1	-1.53	67	0.41	37	0.27	
11148	Ube2e3	-1.53	472	64.19	216	41.87	
11149	Nudcd3	-1.54	30	13.14	16	8.56	
11150	Snrpa	-1.54	199	39.82	90	25.93	
11151	Snrpd3	-1.54	204	62.38	83	40.62	
11152	Srek1	-1.54	293	20.36	174	13.24	
11153	Ninl	-1.54	660	25.02	325	16.28	
11154	Crif2	-1.54	44	7.48	21	4.86	
11155	Lbh	-1.54	115	40.81	42	26.53	
11156	Plxdc1	-1.54	111	6.59	44	4.28	
11157	Elf1	-1.54	262	14.2	119	9.23	
11158	Mmadhc	-1.54	96	15.03	41	9.76	
11159	Dnajc2	-1.54	102	10.03	57	6.51	
11160	Chd2	-1.54	551	11.84	265	7.68	
11161	Pik3c2a	-1.54	527	12.88	251	8.36	
11162	Cdc42	-1.54	663	151.52	297	98.29	
11163	Adss	-1.54	221	18.25	100	11.84	
11164	Bcam	-1.54	532	53.39	237	34.61	
11165	Polb	-1.54	118	13.95	74	9.04	
11166	Adprhl2	-1.54	141	19.44	63	12.61	
11167	Wipf2	-1.54	95	8.45	51	5.48	
11168	Pmvk	-1.54	103	16.88	54	10.94	
11169	Elof1	-1.54	248	53.78	111	34.84	
11170	Supt6h	-1.54	1515	53.76	680	34.82	
11171	Fubp1	-1.54	656	40.72	308	26.37	
11172	Abcb10	-1.54	152	7.33	63	4.74	
11173	Capza1	-1.54	560	40.94	251	26.5	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11174	Snx12	-1.54	295	19.4	154	12.56	
11175	Nrg1	-1.55	237	5.6	129	3.63	
11176	Tanc1	-1.55	1504	36.31	689	23.49	
11177	Mpdz	-1.55	302	8.39	156	5.42	
11178	AABR07059168.2	-1.55	70	6.08	30	3.92	
11179	Ankrd29_1	-1.55	8	2.73	2	1.76	
11180	Apoo	-1.55	45	7.2	22	4.65	
11181	Bcl7b	-1.55	117	11.09	56	7.17	
11182	Ccdc66	-1.55	133	5.39	67	3.48	
11183	Ciart	-1.55	9	1.29	6	0.83	
11184	Def6	-1.55	31	2.71	18	1.75	
11185	Gk	-1.55	48	2.11	34	1.36	
11186	Gpn3	-1.55	54	7.03	24	4.54	
11187	Gzmb_2	-1.55	6	1.45	3	0.94	
11188	Habp4	-1.55	81	7.45	40	4.81	
11189	Ints1_1	-1.55	0	1.78	0	1.15	
11190	Kifc3	-1.55	105	6.74	41	4.35	
11191	LOC102552705	-1.55	21	2.83	11	1.83	
11192	Mina	-1.55	20	3.22	10	2.08	
11193	Muc6	-1.55	15	0.32	7	0.21	
11194	Nkain1	-1.55	17	4	9	2.58	
11195	RGD1562200	-1.55	11	2	13	1.29	
11196	Rnf219	-1.55	86	4.75	38	3.07	
11197	Vipr2	-1.55	15	0.52	15	0.33	
11198	B9d2	-1.55	24	3.67	19	2.37	
11199	Bmp3	-1.55	10	0.43	5	0.28	
11200	Chn2	-1.55	403	18	209	11.63	
11201	Dynlrb1	-1.55	361	122.69	184	79.24	
11202	LOC102557117	-1.55	8	12.06	1	7.79	
11203	Nfe2l3_2	-1.55	18	2.31	8	1.49	
11204	Rapgef4	-1.55	33	0.74	14	0.48	
11205	Rps27a-ps1	-1.55	0	8.23	0	5.31	
11206	Scly	-1.55	23	1.02	8	0.66	
11207	Sv2a	-1.55	33	1.58	14	1.02	
11208	Tmem68	-1.55	167	10.1	77	6.52	
11209	Wdyhv1	-1.55	45	4.03	26	2.6	
11210	Acss2	-1.55	445	32.68	192	21.09	
11211	Pdcd6ip	-1.55	900	36.07	398	23.27	
11212	Arhgef1	-1.55	587	38.94	273	25.12	
11213	Atp5h	-1.55	224	82.85	118	53.35	
11214	Lrrc59	-1.55	881	77.45	388	49.88	
11215	Naa25	-1.55	299	12.78	159	8.23	
11216	AABR07044089.1	-1.55	110	26.07	44	16.78	
11217	Fbxl7	-1.55	62	3.87	27	2.49	
11218	Utp18	-1.55	95	9.26	41	5.96	
11219	Mtpn	-1.56	281	51.09	125	32.84	
11220	Dip2c	-1.56	349	13.04	169	8.38	
11221	Ankib1	-1.56	328	9.43	174	6.06	
11222	Med22_2	-1.56	1	22.65	0	14.54	
11223	Gnb4	-1.56	206	29.13	88	18.7	
11224	Mef2a	-1.56	279	15.62	129	10.02	
11225	Mrps18b	-1.56	134	16.33	58	10.47	
11226	AABR07035818.1	-1.56	116	43.89	51	28.14	
11227	Ddx52	-1.56	83	5.45	42	3.49	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11228	Smim11	-1.56	69	16.98	24	10.88	
11229	Dbi	-1.56	273	28.45	142	18.22	
11230	Foxp1	-1.56	1005	57.25	535	36.66	
11231	Usp16	-1.56	200	12.35	85	7.91	
11232	Tnpo1	-1.56	1116	32.32	516	20.68	
11233	Med15	-1.56	814	34.73	384	22.22	
11234	Ldlr	-1.56	3328	172.33	1457	110.19	
11235	Trip6	-1.56	256	33.63	117	21.51	
11236	Zbtb47	-1.56	104	8.54	44	5.46	
11237	Ccna2	-1.56	21	2.64	9	1.69	
11238	Golm1	-1.56	61	5.22	29	3.34	
11239	Crk	-1.56	324	37.98	142	24.27	
11240	Sqle	-1.57	437	36.38	188	23.24	
11241	Adk	-1.57	448	33.91	202	21.66	
11242	Mid2	-1.57	83	2.88	40	1.84	
11243	Pcf11	-1.57	300	8.86	122	5.65	
11244	Gadd45a	-1.57	99	16.46	38	10.5	
11245	Cpsf3l	-1.57	179	15.46	87	9.86	
11246	Tacc2	-1.57	368	6.26	179	3.99	
11247	Pola1	-1.57	110	3.84	71	2.45	
11248	Rpl32_1	-1.57	58	392.4	33	250.3	
11249	Dlat	-1.57	139	17.25	73	11	
11250	Rab3ip	-1.57	160	12.97	65	8.27	
11251	Arhgap29	-1.57	1550	59.45	665	37.89	
11252	Asap1	-1.57	220	11.17	103	7.12	
11253	Ict1	-1.57	63	17.15	36	10.93	
11254	RGD1309104	-1.57	123	8.54	62	5.44	
11255	Gpatch11	-1.57	72	3.55	30	2.26	
11256	Sypl1	-1.57	186	27.57	99	17.56	
11257	Taf1d	-1.57	172	10.79	73	6.88	
11258	RGD1559786	-1.57	101	15.91	45	10.13	
11259	Lpin2	-1.57	157	5.65	77	3.6	
11260	Ywhaz	-1.57	1880	190.14	820	120.99	
11261	Carm1	-1.57	350	29.28	188	18.62	
11262	Aatf	-1.57	115	8.91	77	5.67	
11263	Prss12	-1.57	25	1.6	11	1.01	
11264	Thns1	-1.57	17	1.49	7	0.95	
11265	Frmf4a	-1.57	39	4.87	27	3.1	
11266	Itga9	-1.57	53	2.56	25	1.63	
11267	Lca5	-1.57	31	1	18	0.64	
11268	Sgol1	-1.57	33	1.8	16	1.14	
11269	Zgrf1	-1.57	29	0.8	17	0.51	
11270	ENSRNOG00000061	-1.57	270	17.87	113	11.36	
11271	Hars	-1.57	258	30.77	110	19.54	
11272	Arhgef17	-1.58	1002	37.35	443	23.7	
11273	Ide	-1.58	791	33.97	358	21.55	
11274	Nop14	-1.58	188	10.36	80	6.57	
11275	Taf12	-1.58	67	5.29	28	3.36	
11276	Ctnna1	-1.58	1344	98.18	615	62.24	
11277	Sgms1	-1.58	341	13.02	157	8.25	
11278	AABR07006894.1	-1.58	20	1.8	9	1.14	
11279	Recql	-1.58	176	10.25	92	6.49	
11280	Ptk2	-1.58	715	30.85	288	19.52	
11281	Clasrp	-1.58	274	19.81	147	12.54	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11282	Setd8	-1.58	246	79.2	122	50.07	
11283	B3gat3	-1.58	229	31.66	98	20.01	
11284	Kctd6	-1.58	26	3.69	15	2.33	
11285	Pagr1	-1.58	19	7.52	10	4.75	
11286	Zcrb1	-1.58	88	8.74	54	5.52	
11287	Atp6v1c1	-1.58	317	26.29	176	16.61	
11288	Ccrn4l	-1.58	25	2.2	10	1.39	
11289	Dusp22	-1.58	53	4.95	45	3.13	
11290	Gpatch3	-1.58	26	3.22	12	2.03	
11291	RGD1311747	-1.58	88	8.55	34	5.4	
11292	Rgs3	-1.58	57	2.05	26	1.3	
11293	Pkn3	-1.58	559	15.26	367	9.64	
11294	Ipo5	-1.58	1242	93.36	518	58.97	
11295	Sdcbp	-1.58	735	71.76	341	45.32	
11296	Prrc1	-1.58	205	29.02	99	18.32	
11297	Slc41a2	-1.58	158	6.8	69	4.29	
11298	Fer	-1.58	180	5.49	98	3.47	
11299	Snopc3	-1.59	180	19.84	92	12.52	
11300	Arhgdia	-1.59	2178	287.6	938	181.42	
11301	Hdac1l_1	-1.59	490	71.4	213	45.03	
11302	Ak6	-1.59	52	27.52	16	17.35	
11303	Ipo4	-1.59	534	34.46	240	21.72	
11304	Fam120a	-1.59	1375	100.54	619	63.37	
11305	Mras	-1.59	1054	59.9	457	37.74	
11306	Marveld2	-1.59	34	2.68	17	1.69	
11307	Ftsj3	-1.59	184	15.72	81	9.9	
11308	Wee1	-1.59	88	5.1	34	3.21	
11309	Arhgef5	-1.59	72	3.4	37	2.14	
11310	Ska3	-1.59	80	4.13	33	2.59	
11311	Anln	-1.59	42	5.33	20	3.35	
11312	Ogfod1	-1.59	52	4.55	21	2.86	
11313	Kif3a	-1.59	100	5.21	48	3.27	
11314	Ubald1_2	-1.59	53	15.34	26	9.63	
11315	Spsb2_1	-1.59	1	9.04	3	5.67	
11316	Sptlc2	-1.59	175	17.49	76	10.97	
11317	Exog	-1.59	59	2.69	29	1.69	
11318	Ubtd2	-1.59	129	8.85	60	5.55	
11319	Prim2	-1.6	97	5.8	58	3.64	
11320	Aacs	-1.6	374	26.63	166	16.68	
11321	Angpt1	-1.6	116	8.56	61	5.36	
11322	Otulin	-1.6	27	12.42	9	7.77	
11323	Cox6b1_1	-1.6	175	92.45	76	57.83	
11324	Kpna1	-1.6	292	12.74	127	7.96	
11325	Nr2f6	-1.6	143	12.23	62	7.65	
11326	Prkx	-1.6	183	10.58	78	6.61	
11327	Dab2	-1.6	599	43.04	252	26.9	
11328	RGD1304694	-1.6	296	21.49	126	13.42	
11329	Fndc3a	-1.6	436	18.51	213	11.54	
11330	Lars	-1.6	460	25.45	211	15.86	
11331	AC094605.2	-1.61	6	0.75	2	0.47	
11332	Ehbp111	-1.61	79	3.4	44	2.11	
11333	Elovl6_2	-1.61	108	27.9	36	17.37	
11334	Lym1	-1.61	23	2.81	11	1.75	
11335	Napb	-1.61	39	2.97	17	1.85	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11336	RGD1307704	-1.61	0	0.67	0	0.42	
11337	Sfmbt2	-1.61	35	1.34	17	0.83	
11338	Zp3	-1.61	7	1.32	4	0.82	
11339	AABR07006333.1	-1.61	3	2.78	3	1.73	
11340	AABR07010620.1	-1.61	20	1.69	9	1.05	
11341	AABR07012795.1	-1.61	5	5.95	2	3.7	
11342	AABR07037203.1	-1.61	7	2.26	2	1.41	
11343	Abhd17c	-1.61	273	22.43	111	13.97	
11344	Ankrd34a	-1.61	7	0.61	3	0.38	
11345	Dgat2	-1.61	23	1.11	10	0.69	
11346	Dok1	-1.61	21	3.03	9	1.89	
11347	ENSRNOG00000053	-1.61	7	0.52	5	0.32	
11348	Golga3	-1.61	79	14.33	48	8.93	
11349	Kcna4	-1.61	7	0.56	3	0.35	
11350	Kcnj3	-1.61	14	0.95	10	0.59	
11351	L3mbtl1	-1.61	21	0.69	17	0.43	
11352	LOC100912571	-1.61	0	5.47	0	3.41	
11353	LOC691056	-1.61	8	0.82	9	0.51	
11354	Lrp4	-1.61	71	1.78	32	1.11	
11355	Pdzd7	-1.61	28	0.89	14	0.56	
11356	Proca1	-1.61	19	1.23	18	0.77	
11357	RGD1564036	-1.61	32	2.76	31	1.72	
11358	Sass6_1	-1.61	5	2.69	4	1.67	
11359	Thoc1_2	-1.61	7	1.69	3	1.05	
11360	Tp53rk	-1.61	20	2.8	9	1.74	
11361	Xkr4	-1.61	89	1.79	55	1.12	
11362	Zfp819	-1.61	8	0.82	4	0.51	
11363	Sh2d3c	-1.61	11	0.53	4	0.33	
11364	Bhlhe40	-1.61	285	29.15	122	18.13	
11365	Mib1	-1.61	442	19.72	230	12.26	
11366	Rbfox2	-1.61	374	16.41	205	10.2	
11367	Bach1	-1.61	98	9.05	35	5.62	
11368	Rrbp1	-1.61	940	43.72	413	27.15	
11369	Tax1bp3	-1.61	596	123.92	255	76.95	
11370	Rapgef6	-1.61	171	4.28	98	2.66	
11371	Chordc1	-1.61	180	12.18	79	7.55	
11372	Fam50a_1	-1.61	0	11.59	0	7.18	
11373	Lmnb1	-1.61	197	21.23	87	13.15	
11374	Kremen1	-1.62	149	6.48	54	4.01	
11375	Pole	-1.62	127	4.03	65	2.5	
11376	Akip1	-1.62	104	7.55	45	4.67	
11377	Fam96b	-1.62	112	36.31	44	22.47	
11378	Map4k4	-1.62	2070	77.83	923	48.15	
11379	Adrm1	-1.62	274	43.05	113	26.63	
11380	Rpl14	-1.62	500	252.98	227	156.32	
11381	Plec	-1.62	2237	31.83	951	19.66	
11382	AC136795.1	-1.62	0	7.03	0	4.34	
11383	Srp19	-1.62	47	13.17	22	8.13	
11384	Prpf38a	-1.62	137	17	64	10.49	
11385	Nup35	-1.62	81	10.95	38	6.76	
11386	Dock6	-1.62	123	3.81	54	2.35	
11387	Fam208b	-1.62	242	7.38	102	4.55	
11388	Taf10	-1.62	173	46.58	77	28.73	
11389	Fbrs	-1.62	36	11.74	22	7.24	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11390	Ndufc1	-1.62	40	21.41	22	13.2	
11391	Nnat	-1.62	121	19.58	59	12.07	
11392	Nol12	-1.62	40	6.61	18	4.07	
11393	Dimt1	-1.62	169	12.22	104	7.53	
11394	Nox4	-1.62	74	2.19	20	1.35	
11395	Ube2f	-1.62	71	14.74	32	9.08	
11396	Etf1	-1.62	537	53.75	253	33.13	
11397	Kidins220	-1.62	932	28.73	403	17.7	
11398	Edem3	-1.62	656	22.6	345	13.92	
11399	Trove2	-1.62	29	3.96	15	2.44	
11400	Cdh11	-1.62	180	6.94	74	4.27	
11401	Lsm7	-1.62	93	43.4	42	26.71	
11402	AC096370.2	-1.63	0	14.41	0	8.87	
11403	AABR07068341.1	-1.63	39	2.84	11	1.75	
11404	Alkbh7	-1.63	27	6.54	15	4.02	
11405	Arhgef25	-1.63	121	12.32	51	7.57	
11406	Atox1	-1.63	62	23.43	33	14.4	
11407	Bola3	-1.63	41	5.93	21	3.64	
11408	Ghr	-1.63	173	6.19	92	3.81	
11409	LOC100911865	-1.63	37	3.94	19	2.42	
11410	Mtif2	-1.63	49	2.45	42	1.51	
11411	Nup160	-1.63	154	8.81	75	5.41	
11412	Rnf217	-1.63	80	5.3	27	3.26	
11413	Runx1	-1.63	156	5.72	60	3.52	
11414	Prr11	-1.63	31	3.4	14	2.09	
11415	Srp54a	-1.63	238	22.57	102	13.86	
11416	Srm	-1.63	1	46.47	0	28.52	
11417	Slc20a1	-1.63	330	20.23	151	12.41	
11418	Efemp1	-1.63	198	21.75	81	13.34	
11419	LOC100361694	-1.63	117	75.93	50	46.59	
11420	Ptpmt1	-1.63	55	6.88	27	4.22	
11421	Guf1	-1.63	72	2.57	35	1.58	
11422	Coq10b	-1.63	170	21.52	75	13.18	
11423	Lum	-1.63	19	2.35	8	1.44	
11424	Nnmt	-1.63	47	4.41	18	2.7	
11425	Ptrhd1	-1.63	19	5.17	8	3.16	
11426	Tmod1	-1.63	33	1.87	23	1.14	
11427	Sergef	-1.63	99	6.56	67	4.01	
11428	Tarsl2	-1.63	30	2.48	14	1.51	
11429	Fyn	-1.64	564	22.47	235	13.74	
11430	Rbm19	-1.64	209	8.41	89	5.14	
11431	Ptbp2	-1.64	316	10.61	231	6.47	
11432	Pprc1	-1.64	500	21.9	206	13.35	
11433	Slc3a2	-1.64	654	73.75	273	44.95	
11434	Rps23_1	-1.64	312	327.34	142	199.49	
11435	Mitd1	-1.64	30	5.54	17	3.38	
11436	Smn1	-1.64	115	16.14	58	9.83	
11437	LOC102549726	-1.64	25	5.07	13	3.09	
11438	Siah2	-1.64	77	7.61	36	4.64	
11439	Dlgap4	-1.64	755	33.85	371	20.61	
11440	Utp6	-1.64	120	14.63	53	8.91	
11441	Dr1_1	-1.64	7	14.83	2	9.03	
11442	Hnrnp1	-1.64	1190	83.14	590	50.62	
11443	Dst	-1.64	3352	30.41	1433	18.5	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11444	L3mbtl3	-1.64	107	7.81	45	4.75	
11445	Aff2	-1.64	1599	35.44	676	21.55	
11446	Cox5a	-1.65	181	86.38	75	52.5	
11447	Farp1	-1.65	373	11.36	164	6.9	
11448	Camlg	-1.65	179	19.65	81	11.94	
11449	Ascc2	-1.65	162	13.51	81	8.21	
11450	Pitpna	-1.65	307	36.91	126	22.42	
11451	ENSRNOG00000043	-1.65	278	9.5	119	5.77	
11452	Metazoa_SRP_22	-1.65	12	55.46	2	33.68	
11453	Ugcg	-1.65	144	12.9	57	7.82	
11454	Hnrnpdl	-1.65	280	28.64	119	17.37	
11455	Timm17a	-1.65	123	35	60	21.23	
11456	Vmp1	-1.65	362	29.71	150	18	
11457	Kcnj14	-1.65	12	1.1	5	0.66	
11458	Ccdc138	-1.65	19	1.46	13	0.88	
11459	Ctps1	-1.65	322	27.78	134	16.82	
11460	Cyb561	-1.65	16	1.12	9	0.68	
11461	Fam172a	-1.65	119	8.08	76	4.89	
11462	Nudt8	-1.65	14	3.68	7	2.23	
11463	Prkci	-1.65	347	17.21	146	10.42	
11464	Ptgfr	-1.65	13	1	5	0.6	
11465	Rn60_X_0648.1	-1.65	0	2.8	0	1.69	
11466	Serpini1	-1.65	35	1.92	15	1.16	
11467	Sgtb	-1.65	27	2.02	9	1.22	
11468	Tnfaip2	-1.65	30	1.57	11	0.95	
11469	Znhit2	-1.65	23	4.66	10	2.82	
11470	Ddr1	-1.66	530	28.71	210	17.34	
11471	Mpzl3	-1.66	71	4.52	29	2.73	
11472	Maoa	-1.66	285	29.67	121	17.9	
11473	Rpl12	-1.66	81	195.59	45	118.01	
11474	AABR07015081.2	-1.66	1097	1702.63	472	1026.95	
11475	Dnajc9	-1.66	97	14.28	41	8.61	
11476	Ccdc174	-1.66	47	5.75	24	3.47	
11477	Tnfaip3	-1.66	43	4.18	17	2.52	
11478	Vps37c	-1.66	143	9.77	67	5.88	
11479	LOC100364748	-1.66	134	19.42	73	11.69	
11480	Klf12	-1.66	124	2.34	67	1.4	
11481	Dapk3	-1.66	242	33.39	97	20.08	
11482	Mlit3	-1.66	97	5.92	56	3.56	
11483	Mnat1	-1.66	123	16.66	76	10.02	
11484	Myh9	-1.66	0	1.16	0	0.7	
11485	Nucb2	-1.66	185	11.41	78	6.86	
11486	Psmc9	-1.66	100	13.91	48	8.36	
11487	Tfpt	-1.67	86	10	48	6	
11488	Mbd2	-1.67	214	23.69	105	14.22	
11489	Eif4ebp1	-1.67	358	101.44	161	60.84	
11490	Galk1	-1.67	100	26.91	44	16.13	
11491	Ssx2ip	-1.67	122	10.17	52	6.1	
11492	Mpc1	-1.67	94	22.42	36	13.44	
11493	Utp11l	-1.67	87	15.12	35	9.07	
11494	Dazap1	-1.67	311	31.41	170	18.82	
11495	Pfdn2	-1.67	177	14.5	97	8.69	
11496	Ipo9	-1.67	772	43.63	328	26.14	
11497	Stam	-1.67	254	17.53	108	10.5	

Supplemental Table 2
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	A	B	C	D	E	F	G
11498	Ptpn1	-1.67	259	30.73	120	18.41	
11499	Sdpr	-1.67	216	16.49	86	9.88	
11500	Rbm3	-1.67	769	100.4	317	60.15	
11501	Rpl41	-1.67	1030	660.88	442	395.58	
11502	RGD1312005	-1.67	18	2.01	7	1.2	
11503	Slc7a11	-1.67	20	0.48	8	0.28	
11504	Fgfr3	-1.67	24	1.18	11	0.71	
11505	Tomm70a	-1.67	68	15.1	25	9.04	
11506	Gfod1	-1.67	112	5.75	22	3.44	
11507	Map6	-1.67	149	2.43	51	1.45	
11508	Nsmce2	-1.67	156	14.29	115	8.55	
11509	Rplp2	-1.67	0	12.17	0	7.28	
11510	Tet3	-1.67	445	12.47	205	7.45	
11511	Metrl	-1.67	709	101.91	319	60.87	
11512	S1pr2	-1.68	185	15.27	74	9.11	
11513	Zfp498	-1.68	73	6.35	42	3.79	
11514	Eif4g1	-1.68	31	97.12	22	57.93	
11515	Esf1	-1.68	158	10.11	72	6.02	
11516	Vps36	-1.68	101	14.85	47	8.84	
11517	Grk6	-1.68	348	15.15	147	9.01	
11518	Kif14	-1.68	33	1.09	18	0.65	
11519	Sertad2	-1.68	131	14.57	56	8.66	
11520	Cep120	-1.68	591	20.86	228	12.4	
11521	Rpl18	-1.68	1085	443.46	427	263.43	
11522	Mbd3	-1.68	288	38.84	142	23.07	
11523	Tuba1c_2	-1.68	55	82.73	18	49.13	
11524	Tspan12	-1.68	134	9.13	51	5.42	
11525	Psmg2	-1.69	70	10.25	35	6.08	
11526	Rbx1	-1.69	249	95.25	148	56.47	
11527	Skil	-1.69	362	27.79	137	16.47	
11528	Eif5a2	-1.69	105	5.27	41	3.12	
11529	Enoph1	-1.69	141	15.95	61	9.44	
11530	Kank1	-1.69	1542	60.75	649	35.96	
11531	Ddhd1	-1.69	164	5.93	71	3.51	
11532	Birc2	-1.69	229	14.85	82	8.79	
11533	Rnf103	-1.69	184	10.04	84	5.94	
11534	AABR07042821.1	-1.69	54	95.58	23	56.51	
11535	Rassf3	-1.69	152	7.27	61	4.29	
11536	Derl2	-1.69	84	13.79	41	8.14	
11537	Pam16	-1.69	59	15.27	28	9.02	
11538	Ufm1	-1.69	104	11.21	40	6.62	
11539	Fez2	-1.7	297	24.93	132	14.7	
11540	Surf6	-1.7	66	8.5	43	5.01	
11541	Kpnb1	-1.7	1884	80.48	756	47.45	
11542	Acot9	-1.7	132	16.28	48	9.6	
11543	Insig1	-1.7	756	113.77	339	67.03	
11544	Cap1	-1.7	2104	201.67	845	118.8	
11545	Dlgap5	-1.7	87	6.74	38	3.97	
11546	Usp31	-1.7	130	5.47	55	3.22	
11547	RGD1308706	-1.7	270	27.09	116	15.95	
11548	Tns3	-1.7	1641	45.97	640	27.05	
11549	Pim3	-1.7	613	87.64	247	51.57	
11550	Tmem43	-1.7	1116	93.49	441	55	
11551	Dus2	-1.7	56	5.41	27	3.18	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11552	Mars	-1.7	454	35.19	182	20.69	
11553	Naa50	-1.7	61	6.83	20	4.02	
11554	Eaf1	-1.7	158	7.24	61	4.25	
11555	Eif2s1	-1.7	366	54.65	152	32.08	
11556	Ptpn12	-1.7	344	20.87	141	12.24	
11557	Ppia	-1.71	470	1013.61	191	594	
11558	Ppme1	-1.71	278	25.37	130	14.86	
11559	Kif1c	-1.71	753	39.36	310	23.06	
11560	Eps8	-1.71	244	12.45	106	7.29	
11561	Ctif	-1.71	691	17.56	263	10.28	
11562	Rgs19	-1.71	171	29.75	76	17.4	
11563	Nfic	-1.71	197	28.5	85	16.66	
11564	Smarca5	-1.71	262	25.29	120	14.77	
11565	Bax	-1.71	98	20.88	43	12.19	
11566	Igsf9	-1.71	470	22.91	191	13.36	
11567	Sh3bp4	-1.71	659	29.88	266	17.43	
11568	Tcp1	-1.72	604	78.22	253	45.6	
11569	Foxn2	-1.72	218	10.58	87	6.17	
11570	AABR07033324.1	-1.72	75	92.58	26	53.85	
11571	Cct6a	-1.72	765	91.1	303	52.95	
11572	Cdc37	-1.72	634	43.69	307	25.4	
11573	Cpm	-1.72	12	0.23	5	0.13	
11574	Dus4l	-1.72	27	1.84	16	1.07	
11575	LOC362863	-1.72	9	0.26	7	0.15	
11576	Lsm4	-1.72	97	23.25	45	13.51	
11577	MGC109340_2	-1.72	0	2.29	0	1.33	
11578	Mospd2	-1.72	100	4.97	49	2.89	
11579	RGD1311458	-1.72	38	3.57	18	2.08	
11580	Tmbim1	-1.72	9	0.67	4	0.39	
11581	AABR07059879.1	-1.72	0	2.52	0	1.46	
11582	Bmp15	-1.72	5	0.41	2	0.24	
11583	Ccdc159	-1.72	7	0.71	6	0.41	
11584	Cdkn3	-1.72	38	7.1	14	4.13	
11585	Faim_1	-1.72	0	1.08	0	0.63	
11586	Fscn2	-1.72	15	0.73	7	0.42	
11587	Gldc	-1.72	16	0.66	7	0.38	
11588	Gli2	-1.72	41	0.78	20	0.46	
11589	Icoslg	-1.72	10	0.45	8	0.26	
11590	LOC100911575	-1.72	0	14.32	0	8.32	
11591	Lrp2	-1.72	30	0.4	21	0.23	
11592	Lym7	-1.72	9	0.7	4	0.4	
11593	Mrs2	-1.72	60	5.75	25	3.34	
11594	Ncbp2_2	-1.72	0	2.65	0	1.54	
11595	Pbx4	-1.72	28	0.9	20	0.52	
11596	Prkch	-1.72	24	1.21	18	0.71	
11597	RGD1563815	-1.72	8	0.4	7	0.23	
11598	Snrnp48	-1.72	126	5.19	82	3.02	
11599	Spryd3	-1.72	141	12.39	57	7.2	
11600	Stard6	-1.72	10	0.87	8	0.51	
11601	Syde2	-1.72	170	9.21	68	5.35	
11602	Tmlhe	-1.72	75	8.35	50	4.85	
11603	Vegfc	-1.72	141	12.28	58	7.14	
11604	Zdhhc14	-1.72	31	0.41	14	0.24	
11605	Zfp28	-1.72	41	3.41	16	1.98	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11606	AABR07059380.1	-1.72	5	0.26	2	0.15	
11607	AC117889.1	-1.72	6	1.82	5	1.06	
11608	Avil	-1.72	55	0.41	29	0.24	
11609	Fbxo45	-1.72	32	4.4	19	2.56	
11610	Gna12	-1.72	25	12.66	14	7.36	
11611	L3hypdh	-1.72	6	0.68	3	0.39	
11612	LOC681195	-1.72	1	2.58	0	1.5	
11613	Magoh	-1.72	135	46.49	55	27.02	
11614	March3	-1.72	60	1.93	33	1.12	
11615	Nek10	-1.72	30	0.37	26	0.21	
11616	P2ry1	-1.72	5	0.39	2	0.23	
11617	Paqr4	-1.72	5	0.61	2	0.35	
11618	Prkar1b	-1.72	9	1.16	7	0.67	
11619	Sap18	-1.72	0	2.4	0	1.4	
11620	Spry3	-1.72	5	0.37	3	0.22	
11621	Tox3	-1.72	9	0.39	6	0.23	
11622	Tppp3	-1.72	2	1.28	0	0.74	
11623	Ttc16	-1.72	15	0.93	5	0.54	
11624	Slc29a4	-1.72	5	0.52	2	0.3	
11625	Rap1gds1	-1.72	760	40.99	305	23.8	
11626	Uso1	-1.72	677	37.97	271	22.03	
11627	Rtn4	-1.72	1155	57.21	477	33.19	
11628	Exoc6b	-1.73	549	12.36	255	7.16	
11629	Cep170b	-1.73	467	16.16	186	9.36	
11630	Cdh3	-1.73	173	10.07	67	5.83	
11631	Wdr46	-1.73	137	10.22	57	5.91	
11632	Rnf2	-1.73	361	35.62	153	20.62	
11633	Tuba1a	-1.73	3240	1702.86	1373	985.22	
11634	Cox7a2_1	-1.73	472	378.44	182	218.91	
11635	Crel2	-1.73	213	36.39	89	21.04	
11636	Vegfa	-1.73	710	42.09	279	24.3	
11637	Azin1	-1.73	1088	59.19	426	34.17	
11638	Ehd2	-1.73	618	71.79	245	41.44	
11639	Kifc1	-1.73	82	7.95	39	4.59	
11640	Plcd1	-1.73	78	6.17	30	3.56	
11641	Usp46	-1.73	516	18.19	194	10.49	
11642	Nenf	-1.74	70	22.1	28	12.73	
11643	Rapgef2	-1.74	485	9.75	214	5.62	
11644	Hnrnpa1	-1.74	784	171.14	406	98.51	
11645	Sema6a	-1.74	244	15.82	101	9.1	
11646	Ept1	-1.74	143	9.66	57	5.56	
11647	Pwp1	-1.74	114	12.24	53	7.04	
11648	Prdm10	-1.74	145	3.56	60	2.05	
11649	Mical2	-1.74	3734	101.48	1531	58.3	
11650	Cebpg	-1.74	179	12.54	73	7.21	
11651	Iqsec1	-1.74	473	19.92	192	11.43	
11652	Hnrnpa0	-1.74	251	69.26	98	39.7	
11653	Col1a1	-1.75	142	6.07	56	3.48	
11654	Tcf20	-1.75	343	11.76	147	6.74	
11655	Slc25a13	-1.75	96	11.33	40	6.48	
11656	Hip1r	-1.75	40	1.89	18	1.08	
11657	Ipo11	-1.75	143	8.42	85	4.82	
11658	RGD1565641	-1.75	38	19.96	17	11.42	
11659	Itga8	-1.75	622	21.82	251	12.49	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11660	Ddah1	-1.75	3278	195.22	1261	111.67	
11661	Ccdc124	-1.75	104	14.57	43	8.34	
11662	Fnbp1	-1.75	155	7.13	84	4.07	
11663	Lrrc20	-1.75	93	4.98	43	2.85	
11664	Wars	-1.75	355	22.15	147	12.66	
11665	Nol10	-1.75	164	10.18	86	5.81	
11666	Arpp19	-1.75	84	41.16	38	23.5	
11667	Fam219a	-1.75	139	8.35	52	4.77	
11668	Gabpb2	-1.75	31	4.74	16	2.71	
11669	Fhl3	-1.75	92	12.51	36	7.14	
11670	Parva	-1.75	1166	55.6	449	31.72	
11671	Eif2b3	-1.75	133	9.24	71	5.27	
11672	Gpx8	-1.75	300	67.57	119	38.53	
11673	Rps10_2	-1.75	99	221.3	64	126.14	
11674	Col27a1	-1.75	296	9.13	115	5.2	
11675	Pno1	-1.75	36	16.8	22	9.57	
11676	Bysl	-1.76	103	14.16	47	8.06	
11677	LOC100911730	-1.76	32	155.08	15	88.2	
11678	Shfm1	-1.76	150	45.66	63	25.97	
11679	AABR07050417.1	-1.76	46	3.95	22	2.25	
11680	Cdyl2	-1.76	33	2.8	25	1.59	
11681	Eprs	-1.76	1377	65.13	564	36.99	
11682	Psmc8	-1.76	736	111.21	287	63.17	
11683	Fgd1	-1.76	74	9.79	32	5.56	
11684	Hcfc1r1	-1.76	47	34.75	16	19.7	
11685	Chka	-1.76	219	7.91	105	4.48	
11686	Fam114a1	-1.76	205	23.98	73	13.6	
11687	Tuba4a	-1.76	43	7.06	11	4	
11688	Eif2s2	-1.76	526	82.88	214	46.96	
11689	Leo1	-1.77	138	11.15	55	6.32	
11690	Phf20l1	-1.77	101	6.65	58	3.76	
11691	Fam63b	-1.77	124	6.84	42	3.88	
11692	Wdr74	-1.77	127	17.2	49	9.73	
11693	Rnf126	-1.77	122	18.54	51	10.49	
11694	Htatif2	-1.77	27	3.24	12	1.83	
11695	Suv39h2	-1.77	24	1.02	12	0.58	
11696	Herc6	-1.77	41	1.25	15	0.71	
11697	Jmjd7	-1.77	25	3.36	13	1.9	
11698	Clip1	-1.77	332	9.22	143	5.21	
11699	Pdcl3	-1.77	295	35.48	113	20.02	
11700	Rab2a	-1.77	284	87.87	125	49.56	
11701	LOC100910838	-1.77	30	4.33	14	2.44	
11702	Tmem47	-1.77	457	26.12	173	14.73	
11703	Ppic	-1.77	144	21.36	51	12.04	
11704	Ect2	-1.77	128	6.04	52	3.41	
11705	Lxn	-1.77	34	11.39	14	6.42	
11706	Rpl22l1	-1.78	108	57.4	42	32.33	
11707	Ndrp4	-1.78	195	12.97	85	7.3	
11708	Mid1ip1	-1.78	441	57.72	169	32.48	
11709	Haus3	-1.78	39	3.76	15	2.12	
11710	Rab1a	-1.78	738	75.57	311	42.43	
11711	LOC100912182	-1.78	166	88.95	61	49.94	
11712	Nckap1	-1.78	1603	108.41	608	60.79	
11713	Nup210	-1.78	75	2.51	29	1.41	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11714	Rin2	-1.79	449	18.86	224	10.54	
11715	AABR07058884.2	-1.79	43	10.14	18	5.67	
11716	Cacnb1	-1.79	22	0.95	6	0.53	
11717	Hist1h2bk	-1.79	13	8.5	4	4.75	
11718	Parbp	-1.79	7	0.73	7	0.41	
11719	Rps19bp1	-1.79	13	6.29	5	3.52	
11720	Gata3	-1.79	19	1.22	7	0.68	
11721	Nr4a3	-1.79	22	0.74	6	0.41	
11722	Rrm2	-1.79	18	5.52	8	3.09	
11723	Adamts5	-1.79	1477	98.65	549	55.11	
11724	Inadl	-1.79	379	9.91	164	5.53	
11725	AABR07021840.1	-1.79	260	18.53	120	10.34	
11726	Ppp3r1	-1.79	73	49.32	33	27.52	
11727	Rps27l	-1.79	198	70.08	77	39.09	
11728	LOC364561	-1.79	189	46.33	84	25.83	
11729	Dnajb2	-1.79	365	32.51	159	18.12	
11730	Pdzd2	-1.79	402	8	180	4.46	
11731	Tsfm	-1.8	63	10.47	40	5.83	
11732	Acat2	-1.8	367	48.44	155	26.95	
11733	Taok1	-1.8	407	29.27	181	16.29	
11734	Mef2d	-1.8	470	33.81	188	18.81	
11735	Zfp385a	-1.8	35	3.26	14	1.81	
11736	Arhgef39	-1.8	59	3.68	24	2.05	
11737	Ntmt1	-1.8	152	20.32	73	11.29	
11738	Lss	-1.8	562	36.1	227	20.05	
11739	Gng12	-1.8	170	38.77	95	21.51	
11740	Wwtr1	-1.8	609	64.6	231	35.83	
11741	Mapre1	-1.8	619	63.05	236	34.97	
11742	Trio	-1.8	867	19.83	363	10.99	
11743	Ap1ar	-1.81	93	12.66	39	7.01	
11744	Cyb5r1	-1.81	51	5.71	20	3.16	
11745	Pycr1	-1.81	22	4.18	8	2.31	
11746	Taf1b	-1.81	45	2.55	34	1.41	
11747	LOC100364500	-1.81	18	4.53	5	2.51	
11748	Phgdh	-1.81	288	37.04	111	20.48	
11749	Jmjd6	-1.81	104	13.49	42	7.46	
11750	Dnm1l	-1.81	340	24.08	149	13.31	
11751	LOC100365902	-1.81	140	29.13	55	16.08	
11752	Rhoa	-1.81	2176	335.37	822	185.15	
11753	Veph1	-1.81	86	2.04	51	1.13	
11754	Uprt	-1.81	33	5.64	13	3.11	
11755	Rn60_10_0890.5	-1.82	2	11.23	0	6.18	
11756	Ube2a	-1.82	88	19.12	40	10.53	
11757	Ric8a	-1.82	417	39.62	157	21.8	
11758	Impad1	-1.82	5	25.2	2	13.86	
11759	Yes1	-1.82	259	11.45	153	6.3	
11760	Lin7c	-1.82	143	42.75	53	23.52	
11761	Tmem29	-1.82	44	27.44	17	15.09	
11762	Chic2	-1.82	101	10.26	55	5.63	
11763	Mrpl18	-1.82	56	11.87	27	6.51	
11764	Map3k7	-1.82	2	14.82	3	8.13	
11765	Ccdc86	-1.82	133	19.61	51	10.75	
11766	Gar1	-1.82	67	9.77	22	5.36	
11767	Usp12	-1.82	61	12.4	19	6.8	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11768	Wfs1	-1.82	183	11.65	64	6.39	
11769	Lpcat4	-1.83	70	9.71	27	5.32	
11770	Pus1	-1.83	71	8.52	42	4.67	
11771	LOC100911393_1	-1.83	38	11.02	16	6.03	
11772	LOC100360573_1	-1.83	146	416.65	64	228.04	
11773	Jade1	-1.83	213	7.39	91	4.04	
11774	Slk	-1.83	281	15.54	110	8.5	
11775	Baz1a	-1.83	242	10.15	96	5.55	
11776	Eif1a	-1.83	234	27.55	90	15.06	
11777	Smyd5	-1.83	122	12.39	49	6.77	
11778	Nab1	-1.83	182	8.65	73	4.72	
11779	Rrp12	-1.83	196	10.36	77	5.65	
11780	Cramp1l	-1.83	410	15.82	163	8.63	
11781	Slc7a5	-1.83	386	26.88	147	14.66	
11782	Psmc3	-1.83	565	82.9	211	45.2	
11783	AABR07010460.1	-1.84	7	1.14	3	0.62	
11784	AABR07040855.1	-1.84	16	4.63	6	2.52	
11785	Camkmt	-1.84	15	1.96	10	1.07	
11786	Ccdc64	-1.84	29	0.58	8	0.32	
11787	Dgkb	-1.84	63	0.3	30	0.17	
11788	Klf13	-1.84	32	6.62	22	3.61	
11789	Kihl29	-1.84	32	0.26	16	0.14	
11790	LOC100912866	-1.84	60	3.03	13	1.65	
11791	Mff_1	-1.84	0	2.09	0	1.14	
11792	Plekha4	-1.84	10	0.67	6	0.36	
11793	Ppm1e	-1.84	25	0.73	22	0.4	
11794	Prorsd1	-1.84	9	1.94	3	1.05	
11795	Tigd2	-1.84	24	3.78	9	2.06	
11796	Tmem170a	-1.84	90	4.91	36	2.68	
11797	Ube2l6	-1.84	28	4.24	10	2.31	
11798	AC097939.1	-1.84	0	15.82	0	8.62	
11799	Dact1	-1.84	8	0.81	3	0.44	
11800	Faxc	-1.84	14	1.19	6	0.65	
11801	Filip1	-1.84	33	0.63	13	0.34	
11802	Frmtd4b	-1.84	30	0.9	22	0.49	
11803	Gramd2	-1.84	10	1.42	7	0.77	
11804	Ncs1	-1.84	82	4.08	35	2.22	
11805	Rapgef1l	-1.84	16	1.73	6	0.94	
11806	Serpinb8	-1.84	8	0.48	4	0.26	
11807	Wnk2	-1.84	14	0.29	20	0.16	
11808	Zbtb8a	-1.84	34	2.79	16	1.52	
11809	Kihl34	-1.84	8	1.03	3	0.56	
11810	LOC100363048	-1.84	9	16.61	3	9.05	
11811	Plekhg2	-1.84	428	18.45	152	10.04	
11812	Sdc2	-1.84	826	62.02	306	33.76	
11813	Arpc4	-1.84	627	103.38	234	56.27	
11814	Sec24a	-1.84	399	18.77	179	10.21	
11815	Sltm	-1.84	484	21.77	216	11.84	
11816	Plekha2	-1.84	408	15.95	155	8.67	
11817	Rps15a	-1.84	127	313.83	66	170.44	
11818	Fabp5	-1.84	81	28.6	30	15.52	
11819	Rbm7	-1.84	103	14.99	36	8.13	
11820	Map2k4	-1.84	145	18.53	69	10.06	
11821	Tceal8	-1.84	333	78.71	122	42.72	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11822	Apoe	-1.84	76	12.02	28	6.52	
11823	Amotl1	-1.84	108	6.44	58	3.49	
11824	AC107580.1	-1.84	25	35.6	19	19.3	
11825	Klf16	-1.84	133	12.11	49	6.57	
11826	Sort1	-1.85	1030	34.97	389	18.94	
11827	Dixdc1	-1.85	74	2.26	35	1.22	
11828	Lclat1	-1.85	78	5.19	41	2.81	
11829	Aars	-1.85	1089	73.08	405	39.54	
11830	Axl	-1.85	1063	55.12	390	29.82	
11831	Pfkip	-1.85	1965	176.74	781	95.59	
11832	Cyp51	-1.85	1275	92.03	475	49.74	
11833	Serbp1	-1.85	657	104.84	251	56.65	
11834	Strn3	-1.85	710	25.69	289	13.87	
11835	LOC102551819	-1.85	70	7.4	26	3.99	
11836	Trim68	-1.85	60	4.29	17	2.31	
11837	Cacnb2	-1.85	566	11.47	136	6.19	
11838	Arfp1	-1.85	244	22.2	113	11.98	
11839	Cox6c	-1.85	276	146.83	107	79.2	
11840	Utp20	-1.85	576	13.92	212	7.51	
11841	Ddr2	-1.85	121	6.46	47	3.48	
11842	Oca2	-1.86	628	25.11	321	13.53	
11843	Tk1	-1.86	117	10	47	5.39	
11844	Stx3	-1.86	226	13.32	84	7.17	
11845	RGD1305014	-1.86	44	3.26	17	1.75	
11846	Aes	-1.86	327	127.15	123	68.43	
11847	Tlr2	-1.86	27	2.59	10	1.4	
11848	LOC100912163	-1.86	11	5.05	7	2.72	
11849	Thbs1	-1.86	15706	1025.16	5750	551.57	
11850	Tfg	-1.86	547	67.59	216	36.29	
11851	AABR07042397.1	-1.86	0	22.78	0	12.23	
11852	Snrpd2	-1.87	110	37.82	39	20.27	
11853	Rpl37a	-1.87	396	81.48	156	43.65	
11854	Chmp2a	-1.87	134	36.14	57	19.35	
11855	Ydjc	-1.87	83	13.43	34	7.19	
11856	Aass	-1.87	24	1.7	10	0.91	
11857	Arf2	-1.87	126	13.05	43	6.99	
11858	Gulp1	-1.87	163	6.32	91	3.38	
11859	Mettl2b	-1.87	150	4.59	63	2.46	
11860	Ppp1r3b	-1.87	22	1.08	7	0.58	
11861	Shmt1	-1.87	29	2.31	22	1.24	
11862	Cenpt	-1.87	48	4.19	14	2.24	
11863	Pcbp3	-1.87	42	2.31	32	1.24	
11864	Nop58	-1.87	357	34.46	147	18.44	
11865	Prickle1	-1.87	259	13.28	96	7.1	
11866	B4galt5	-1.87	328	19.56	125	10.46	
11867	Rwdd1	-1.87	117	22.85	46	12.22	
11868	Uchl1	-1.87	458	99.29	158	53.09	
11869	Gab1	-1.87	427	27.85	152	14.88	
11870	Otud4	-1.87	371	20.87	133	11.15	
11871	Nek6	-1.87	136	12.35	52	6.6	
11872	Mrps26	-1.87	50	12.61	18	6.73	
11873	Abcd4	-1.87	122	8.38	48	4.47	
11874	Hnrnp1	-1.88	81	16	41	8.53	
11875	Capn2	-1.88	1007	64.99	381	34.64	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11876	RGD1309079	-1.88	616	26.79	225	14.27	
11877	Wsb2	-1.88	737	113.72	265	60.5	
11878	Smad6	-1.88	233	14.9	165	7.92	
11879	Tmed5	-1.88	120	11.09	43	5.9	
11880	Npm1	-1.88	435	115.18	183	61.21	
11881	Col11a1	-1.88	22650	692.65	8089	367.59	
11882	Nras	-1.88	263	48.45	96	25.7	
11883	Nbeal1	-1.89	203	4.57	88	2.42	
11884	Ssfa2	-1.89	557	21.25	196	11.27	
11885	Alcam	-1.89	400	20.5	126	10.86	
11886	Cask_2	-1.89	460	44.36	173	23.49	
11887	Lats2	-1.89	645	29	243	15.34	
11888	Ahrr	-1.89	42	1.17	20	0.62	
11889	Ak4	-1.89	30	5.35	11	2.83	
11890	Flot1	-1.89	312	29.8	118	15.75	
11891	Galnt13	-1.89	78	1.25	46	0.66	
11892	Lck	-1.89	11	1.32	5	0.7	
11893	Ndel1	-1.89	279	23.04	117	12.18	
11894	Nog	-1.89	22	3.37	8	1.78	
11895	RGD1310257	-1.89	33	1.07	20	0.56	
11896	Rnaseh1	-1.89	66	5.98	28	3.16	
11897	Rnls	-1.89	29	1.53	52	0.81	
11898	Rpl36al_2	-1.89	23	53.26	14	28.14	
11899	Shq1	-1.89	34	1.86	18	0.98	
11900	Tmem234	-1.89	25	3.38	14	1.79	
11901	Ttc25	-1.89	20	1.12	11	0.59	
11902	AABR07058464.1	-1.89	11	2.83	3	1.49	
11903	Alkbh2	-1.89	11	2.27	7	1.2	
11904	Exoc6	-1.89	52	2.71	35	1.43	
11905	Fam126b	-1.89	58	2.93	48	1.55	
11906	Ifi44l	-1.89	14	2.06	5	1.09	
11907	Lmo1	-1.89	15	2.36	6	1.25	
11908	Tpmt	-1.89	17	2.23	8	1.18	
11909	Hmgcs1	-1.89	1705	126.98	616	67.02	
11910	Myo9a	-1.9	426	10.33	178	5.45	
11911	Rasa1	-1.9	567	38.26	217	20.18	
11912	Stx7	-1.9	72	15.59	24	8.23	
11913	Kat2b	-1.9	43	10.42	12	5.49	
11914	Map4k5	-1.9	380	18.97	161	10	
11915	Slc9a3r1	-1.9	81	13.36	32	7.04	
11916	Nr3c1_2	-1.9	79	16.09	29	8.47	
11917	Tprg1l	-1.9	548	74.31	198	39.12	
11918	Cycs_1	-1.9	131	55.02	50	28.97	
11919	Hcfc2	-1.9	175	14.59	83	7.68	
11920	Sptbn1	-1.9	4483	134.21	1642	70.62	
11921	LOC498555	-1.9	312	498.33	104	262.01	
11922	Tmem97	-1.9	137	26.1	52	13.71	
11923	Eif4e2	-1.9	280	29.67	104	15.58	
11924	Pdp2	-1.9	121	14.01	43	7.36	
11925	Tomm6	-1.91	38	39.87	14	20.92	
11926	Wwc2	-1.91	1146	32.89	446	17.25	
11927	Higd1a	-1.91	101	14.06	39	7.36	
11928	Rpp21	-1.91	89	18.55	33	9.72	
11929	Dusp16	-1.91	140	11.62	53	6.08	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11930	Fosl2	-1.91	316	37.17	119	19.47	
11931	Diap2	-1.91	50	2.94	26	1.54	
11932	Exo1	-1.91	30	2.48	11	1.3	
11933	Ptger4	-1.91	27	4.23	9	2.21	
11934	Mrip1	-1.91	2256	59.86	806	31.29	
11935	Cchcr1	-1.91	110	9.32	43	4.87	
11936	Haus6	-1.91	65	5.72	25	2.98	
11937	Cfl2	-1.92	323	27.52	117	14.36	
11938	Lpar4	-1.92	47	2.33	16	1.22	
11939	Rpl27a	-1.92	321	215.46	150	112.35	
11940	Ccdc6	-1.92	161	18.69	86	9.74	
11941	Usp15	-1.92	216	9.1	88	4.74	
11942	LOC689899	-1.93	3	6.57	0	3.41	
11943	Slc31a1	-1.93	171	24.64	74	12.78	
11944	Agtr1a	-1.93	18	1.6	6	0.83	
11945	Jam3	-1.93	285	29.67	115	15.4	
11946	LOC303566	-1.93	16	1.28	5	0.66	
11947	Mtf1	-1.93	0	0.81	0	0.42	
11948	Snrpe	-1.93	38	33.38	11	17.32	
11949	Tprkb_2	-1.93	0	6.61	0	3.43	
11950	Wbp4	-1.93	67	6.78	42	3.52	
11951	Fam109b	-1.93	15	1.3	6	0.68	
11952	Zfyve21	-1.93	124	8.4	72	4.36	
11953	Rasa2	-1.93	171	4.92	74	2.55	
11954	Agfg1	-1.93	417	41.46	189	21.48	
11955	Tnks1bp1	-1.93	524	20.02	183	10.37	
11956	Mrto4	-1.93	107	16	35	8.28	
11957	Dctn6	-1.93	183	37.64	72	19.46	
11958	Fxr1	-1.93	70	24.71	39	12.78	
11959	Kri1	-1.94	55	5.37	32	2.77	
11960	Esrra	-1.94	119	10.4	40	5.37	
11961	Larp1b	-1.94	114	5.79	40	2.99	
11962	LOC100363800	-1.94	185	178.28	74	92.08	
11963	Tars	-1.94	413	31.78	150	16.41	
11964	Mkl1	-1.94	236	9.07	91	4.68	
11965	Adgrl3	-1.94	905	18.02	310	9.3	
11966	Clec16a	-1.94	398	19.84	159	10.23	
11967	Lmo7	-1.94	39	1.49	21	0.77	
11968	Syncrip	-1.94	674	32.58	308	16.79	
11969	Tgfbr2	-1.94	103	7.07	37	3.64	
11970	Zfand2a	-1.94	198	13.26	71	6.83	
11971	Htr2a	-1.95	132	4.42	62	2.27	
11972	Gtf2f2	-1.95	101	8.78	52	4.5	
11973	Morc4	-1.95	103	3.54	36	1.81	
11974	Rps29_4	-1.95	4	13.98	1	7.17	
11975	Scnm1	-1.95	34	8.16	14	4.19	
11976	Stk38l	-1.95	536	24.2	180	12.4	
11977	Rcn1	-1.96	465	87.54	159	44.78	
11978	Plp2	-1.96	229	96.21	98	49.2	
11979	Nolc1	-1.96	469	31.2	166	15.95	
11980	Nov	-1.96	4564	454.23	1576	232.11	
11981	Ccnj	-1.96	0	2.2	0	1.12	
11982	Chmp4c	-1.96	52	5.79	24	2.96	
11983	Phlda1	-1.96	392	53.66	140	27.39	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
11984	Sertad1	-1.96	190	35.87	60	18.31	
11985	Idi1	-1.96	396	34.84	144	17.77	
11986	Swap70	-1.96	160	8.61	57	4.39	
11987	Myo1d	-1.96	317	10.1	116	5.15	
11988	Meis1	-1.96	2050	56.8	680	28.92	
11989	Sp140	-1.97	190	9.2	69	4.68	
11990	Cox18	-1.97	80	3.72	36	1.89	
11991	Mog	-1.97	119	6.32	26	3.21	
11992	Poc1a	-1.97	26	4.51	12	2.3	
11993	Dram1	-1.97	21	1.82	7	0.92	
11994	Txnrd3	-1.97	25	1.77	9	0.9	
11995	Lyar	-1.97	89	8.81	44	4.47	
11996	Pcbp4	-1.97	227	26.12	81	13.25	
11997	Csgalnact2	-1.97	281	20.42	93	10.36	
11998	Txnrdc17	-1.97	129	22.56	49	11.43	
11999	Akap1	-1.97	312	19.42	114	9.84	
12000	Zfp143	-1.97	83	5.47	38	2.77	
12001	Ybx1	-1.98	253	249.33	110	126.15	
12002	ENSRNOG00000050	-1.98	56	8.16	20	4.13	
12003	Mrpl47	-1.98	47	5.92	19	2.99	
12004	S100a16	-1.98	23	4.96	8	2.51	
12005	Tfcp2l1	-1.98	101	3.11	38	1.57	
12006	Stxbp6	-1.98	125	4.31	43	2.18	
12007	Ctnna3_1	-1.98	185	31.25	59	15.75	
12008	Strn	-1.99	237	14.28	107	7.19	
12009	Dbf4_1	-1.99	6	3.44	3	1.73	
12010	Pim1	-1.99	82	14.96	29	7.53	
12011	Mybl1	-1.99	37	1.3	15	0.66	
12012	St3gal5	-1.99	1096	89.4	372	44.96	
12013	Bmp2k	-1.99	443	26.88	163	13.51	
12014	Rad23b	-1.99	1388	118.85	482	59.71	
12015	Cspg4	-1.99	293	8.58	102	4.3	
12016	Mki67	-2	387	9.66	141	4.84	Genes down-regulated by FSH
12017	Wt1	-2	139	8.56	45	4.28	
12018	Kctd9	-2	194	12.59	68	6.29	
12019	Abhd10_2	-2	0	5.57	0	2.78	
12020	Ate1	-2	589	21.65	205	10.8	
12021	Atp5j2	-2.01	173	102.28	59	50.98	
12022	Stk40	-2.01	378	22.85	134	11.38	
12023	LOC103692716	-2.01	30	93.69	11	46.6	
12024	LOC100912399_1	-2.01	45	20	14	9.95	
12025	Ldlrap1	-2.01	59	10.28	27	5.11	
12026	Lgals1	-2.01	828	374.98	277	186.41	
12027	Tmem170b	-2.01	82	10.06	32	5	
12028	Tsr3	-2.01	28	6.65	11	3.31	
12029	Rasal2	-2.01	232	6.27	107	3.11	
12030	Kihl28	-2.02	100	6.73	39	3.34	
12031	AABR07002779.1	-2.02	61	53.57	58	26.55	
12032	Jmjd4	-2.02	64	6.09	15	3.02	
12033	Fabp3	-2.02	287	87.19	107	43.18	
12034	Bnip2	-2.02	505	30.1	286	14.91	
12035	Shmt2	-2.02	341	38.79	119	19.19	
12036	Slc38a4	-2.02	61	2.92	25	1.44	

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	A	B	C	D	E	F	G
12037	Zmat3	-2.02	70	9.13	23	4.52	
12038	Itpr1	-2.02	2061	40.49	745	20.02	
12039	Tank	-2.02	171	11.06	68	5.47	
12040	Itch	-2.02	302	21.08	139	10.42	
12041	Mus81	-2.02	121	12.14	49	6	
12042	Sars	-2.02	593	70.06	196	34.61	
12043	Epb41l2	-2.03	460	25.95	164	12.81	
12044	Aimp1	-2.03	113	23.54	43	11.62	
12045	Fam102b	-2.03	83	12.07	31	5.95	
12046	Yap1	-2.03	715	87.09	279	42.89	
12047	Per2	-2.03	74	2.67	28	1.31	
12048	Tpm3	-2.03	1008	94.36	373	46.43	
12049	lfrd2	-2.03	73	8.28	23	4.07	
12050	Msrb1	-2.04	85	20.36	27	10	
12051	Jun	-2.04	896	72.35	303	35.52	
12052	Gyg1	-2.04	194	22.36	63	10.97	
12053	Mrpl17	-2.04	268	67.15	95	32.92	
12054	AABR07073181.1	-2.04	442	14.14	147	6.93	
12055	Anxa2	-2.04	1818	327.03	629	159.98	
12056	U2af1	-2.04	374	54.5	166	26.65	
12057	Zfpm2	-2.05	1223	24.51	451	11.98	
12058	Pde7a	-2.05	216	8.22	70	4.02	
12059	Tob2	-2.05	124	11.55	47	5.65	
12060	Dkk3	-2.05	810	37.55	263	18.36	
12061	Gale	-2.05	159	25.49	51	12.43	
12062	Ddx42	-2.05	1155	58.86	413	28.66	
12063	Utrn	-2.06	896	13.09	365	6.37	
12064	Ccnd3	-2.06	219	29.21	78	14.21	
12065	Rpl23a	-2.06	280	379.05	121	184.24	
12066	Tubb2a	-2.06	407	58.53	133	28.44	
12067	AABR07024457.1	-2.06	12	0.84	4	0.41	
12068	AABR07027854.1	-2.06	4	2.7	3	1.31	
12069	AABR07028795.1	-2.06	6	6.64	4	3.22	
12070	AABR07032255.2	-2.06	0	1.72	0	0.83	
12071	AABR07061385.2	-2.06	3	2.01	1	0.97	
12072	AABR07066144.1	-2.06	2	1.63	0	0.79	
12073	AC130232.1	-2.06	0	2.37	0	1.15	
12074	Acyp1	-2.06	23	4.26	6	2.06	
12075	Cebpzpos	-2.06	3	3.08	1	1.49	
12076	Celf3	-2.06	12	0.53	8	0.25	
12077	Elovl2	-2.06	4	0.2	1	0.1	
12078	Fam109a	-2.06	3	1.06	1	0.51	
12079	Fam131a_1	-2.06	0	0.21	0	0.1	
12080	Fam203a	-2.06	66	6.95	24	3.37	
12081	Fam213b	-2.06	7	1.7	1	0.83	
12082	Gnb3	-2.06	6	0.43	4	0.21	
12083	Gng3	-2.06	6	1.3	2	0.63	
12084	Hhip	-2.06	5	0.27	3	0.13	
12085	Hist1h4b_1	-2.06	3	1.89	1	0.91	
12086	Ikzf2	-2.06	18	0.34	32	0.17	
12087	Irx2	-2.06	12	1.57	4	0.76	
12088	Kif1a	-2.06	54	1.96	18	0.95	
12089	Lin52	-2.06	11	7.63	6	3.69	
12090	LOC100360274	-2.06	266	0.71	102	0.35	

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	A	B	C	D	E	F	G
12091	LOC102547059	-2.06	0	0.11	0	0.05	
12092	LOC685596	-2.06	0	6.29	0	3.05	
12093	Mansc1	-2.06	13	1.31	5	0.63	
12094	Nefm	-2.06	11	0.98	4	0.47	
12095	Npr1	-2.06	4	0.18	1	0.09	
12096	Ntm	-2.06	12	0.23	4	0.11	
12097	Pcdhb15	-2.06	3	0.32	1	0.15	
12098	Pde2a	-2.06	5	0.17	2	0.08	
12099	Phyhd1	-2.06	84	10.07	28	4.88	
12100	Ppfia3	-2.06	6	0.3	4	0.15	
12101	Rab44	-2.06	4	0.34	2	0.17	
12102	Ramp1	-2.06	110	27.75	39	13.44	
12103	RGD1560784	-2.06	3	0.75	1	0.36	
12104	RGD1564370	-2.06	0	1.87	0	0.9	
12105	RGD1566369	-2.06	1	1.19	0	0.58	
12106	Rn60_2_1764.2	-2.06	8	0.68	2	0.33	
12107	Rps191l	-2.06	1	1.59	0	0.77	
12108	Scn3a	-2.06	4	0.22	2	0.11	
12109	Sdhaf3	-2.06	8	1.47	10	0.71	
12110	Slc16a10	-2.06	6	0.28	8	0.14	
12111	Slc35d2	-2.06	67	3.76	40	1.82	
12112	Slc35f2	-2.06	4	0.27	3	0.13	
12113	Spata31d1d	-2.06	3	0.19	1	0.09	
12114	Tjp3	-2.06	11	0.33	6	0.16	
12115	Tmem202	-2.06	7	0.58	3	0.28	
12116	Tnfaip8l1	-2.06	3	1.33	1	0.65	
12117	Trim15	-2.06	19	1.04	12	0.5	
12118	Trmt11	-2.06	56	4.29	25	2.08	
12119	Ube3d	-2.06	73	2.42	47	1.17	
12120	Ubxn11	-2.06	8	0.41	3	0.2	
12121	Zbtb16	-2.06	11	0.28	9	0.14	
12122	Zc3hav1l	-2.06	8	1.66	3	0.8	
12123	Zfp423	-2.06	10	0.16	11	0.08	
12124	Zfp455	-2.06	1	0.25	1	0.12	
12125	Zfp483	-2.06	4	0.34	1	0.16	
12126	AABR07006889.1	-2.06	3	0.36	1	0.18	
12127	AABR07009834.1	-2.06	3	2.22	1	1.08	
12128	AABR07013776.1	-2.06	5	3.37	2	1.63	
12129	AABR07017145.1	-2.06	7	0.37	9	0.18	
12130	AABR07021220.1	-2.06	1	0.58	0	0.28	
12131	AABR07044080.2	-2.06	9	3.19	6	1.55	
12132	AABR07048280.1	-2.06	0	1.27	0	0.62	
12133	AABR07053188.1	-2.06	0	2.24	0	1.09	
12134	AABR07055191.1	-2.06	28	0.9	16	0.43	
12135	AABR07065493.1	-2.06	0	0.65	0	0.32	
12136	AABR07068587.1	-2.06	7	4.15	2	2.01	
12137	AABR07072371.1	-2.06	0	0.87	0	0.42	
12138	AC099294.1	-2.06	0	2.99	0	1.45	
12139	AC103090.1	-2.06	2	5.42	1	2.62	
12140	AC136661.1	-2.06	0	2.24	0	1.09	
12141	Aebp1	-2.06	13	0.78	5	0.38	
12142	Arl14ep	-2.06	122	13.62	47	6.6	
12143	Aunip	-2.06	11	1.14	11	0.55	
12144	Ccdc122	-2.06	10	0.49	6	0.24	

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	A	B	C	D	E	F	G
12145	Ccdc57	-2.06	66	1.23	57	0.59	
12146	Cenpq	-2.06	3	0.92	2	0.44	
12147	Cenpu	-2.06	32	1.81	21	0.88	
12148	Cgref1	-2.06	10	1.68	5	0.82	
12149	Chrm2	-2.06	3	0.34	1	0.17	
12150	Cib2	-2.06	6	0.53	5	0.26	
12151	Cklf	-2.06	4	1.12	4	0.54	
12152	Cmya5	-2.06	5	0.06	5	0.03	
12153	Cntn4	-2.06	19	0.15	10	0.07	
12154	Col20a1	-2.06	15	0.17	15	0.08	
12155	Des	-2.06	3	0.34	1	0.17	
12156	Dscc1	-2.06	33	2.83	18	1.37	
12157	Ears2_2	-2.06	3	1.43	2	0.69	
12158	Fam174b	-2.06	13	0.91	6	0.44	
12159	Fez1	-2.06	6	0.44	5	0.22	
12160	Fgf9	-2.06	9	0.75	9	0.36	
12161	Fkbp6	-2.06	5	0.53	5	0.25	
12162	Gnas_1	-2.06	8	1.83	2	0.88	
12163	Hist1h3a	-2.06	1	1.82	1	0.88	
12164	Hspa12b	-2.06	13	0.63	6	0.3	
12165	Inpp5j	-2.06	4	0.22	2	0.11	
12166	Irga11	-2.06	288	14.57	97	7.06	
12167	Jazf1	-2.06	94	8.2	55	3.97	
12168	Klk13	-2.06	3	0.72	1	0.35	
12169	Lgi2	-2.06	7	0.25	3	0.12	
12170	LOC100909526	-2.06	0	1.49	0	0.72	
12171	LOC100910255_1	-2.06	0	0.14	0	0.07	
12172	LOC680200	-2.06	24	1.89	12	0.92	
12173	LOC685067	-2.06	3	0.4	1	0.19	
12174	LOC691113	-2.06	4	1.67	2	0.81	
12175	Loxl1	-2.06	12	0.54	3	0.26	
12176	Lym5	-2.06	6	5.73	2	2.77	
12177	Mical1	-2.06	251	15.22	79	7.37	
12178	Mnd1	-2.06	4	1.22	6	0.59	
12179	Msl3l2	-2.06	0	0.49	0	0.24	
12180	Nek3	-2.06	27	0.88	13	0.43	
12181	Nxph3	-2.06	9	1.21	3	0.58	
12182	Ogn_2	-2.06	0	0.83	0	0.4	
12183	P2rx5	-2.06	8	0.25	2	0.12	
12184	Paqr8	-2.06	60	8.88	21	4.3	
12185	Pdcd5	-2.06	0	14.79	0	7.16	
12186	Pif1	-2.06	7	0.78	4	0.38	
12187	Plac9	-2.06	10	1.58	4	0.76	
12188	Plaur	-2.06	29	5.1	7	2.47	
12189	Pnpla3	-2.06	4	0.23	2	0.11	
12190	Ppm1j	-2.06	3	0.35	1	0.17	
12191	Prrg4	-2.06	3	0.4	1	0.19	
12192	Rexo2	-2.06	307	45.08	90	21.83	
12193	RGD1559955	-2.06	1	18.32	0	8.87	
12194	RGD1564883	-2.06	3	7.29	0	3.53	
12195	Rn60_X_0711.1	-2.06	3	1.17	1	0.57	
12196	Rnf151	-2.06	3	0.64	1	0.31	
12197	Rnf180	-2.06	21	1.26	14	0.61	
12198	Satb2	-2.06	10	0.12	6	0.06	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12199	Scin	-2.06	6	0.35	3	0.17	
12200	Sdk2	-2.06	14	0.1	7	0.05	
12201	Sec31b	-2.06	3	0.16	3	0.08	
12202	Sh3rf3	-2.06	6	0.36	4	0.17	
12203	Smagp	-2.06	13	1	5	0.48	
12204	Sptlc3	-2.06	10	0.24	6	0.12	
12205	Sstr2	-2.06	4	0.36	1	0.17	
12206	Syt9	-2.06	18	0.99	5	0.48	
12207	Tex14	-2.06	169	0.78	104	0.38	
12208	Tyw3	-2.06	44	4.97	30	2.41	
12209	Usp50	-2.06	15	0.47	27	0.23	
12210	Vmac	-2.06	7	2.9	2	1.4	
12211	Zfp951_1	-2.06	0	0.61	0	0.29	
12212	Lipa	-2.07	2502	173.99	813	84.17	
12213	Map7d1	-2.07	592	40.44	203	19.51	
12214	Rsu1	-2.08	267	44.38	107	21.35	
12215	LOC100362432	-2.08	136	31.49	55	15.14	
12216	Aida	-2.08	304	23.68	124	11.38	
12217	Dcbld2	-2.08	507	39.85	158	19.15	
12218	Mphosph10	-2.08	130	13.01	45	6.25	
12219	Chmp3	-2.09	149	29.8	59	14.29	
12220	Bag2	-2.09	115	13.63	35	6.52	
12221	Srgap2	-2.09	428	16.29	164	7.78	
12222	Romo1	-2.09	50	43.17	17	20.61	
12223	Slc25a25	-2.1	147	10.89	50	5.2	
12224	Ptrf	-2.1	3925	303.65	1292	144.9	
12225	Cox17	-2.1	75	37.79	26	18.02	
12226	Cltb	-2.1	152	27.61	47	13.14	
12227	Fam117a	-2.1	99	5.07	37	2.41	
12228	Rps18	-2.1	64	562.81	18	267.58	
12229	Myo19	-2.1	136	6.6	55	3.14	
12230	Cttnbp2nl	-2.11	401	18.6	134	8.83	
12231	RGD1559896	-2.11	1226	97.13	401	46.12	
12232	Usp13	-2.11	299	8.29	98	3.94	
12233	AC098459.1	-2.11	30	17.17	9	8.15	
12234	LOC100909544	-2.11	1	3.61	0	1.71	
12235	Snf8	-2.11	130	27.19	44	12.9	
12236	Tlk1_1	-2.11	27	11.82	7	5.61	
12237	Sesn2	-2.11	208	12.66	68	6	
12238	Pkmyt1	-2.11	32	3.96	11	1.88	
12239	Snx24	-2.11	125	5.24	53	2.48	
12240	LOC679739	-2.11	1	16.77	0	7.93	
12241	Piezo1	-2.11	45	1.31	15	0.62	
12242	Kif20b	-2.11	45	1.96	21	0.93	
12243	Tmsb10_1	-2.11	1468	769.15	473	363.85	
12244	Map4	-2.11	1826	46.33	611	21.92	
12245	Abl2	-2.11	416	8.34	210	3.94	
12246	Tmtc1	-2.12	82	3.24	28	1.53	
12247	Ndufa4	-2.12	252	74.27	81	35.05	
12248	Picalm	-2.12	1037	88.93	399	41.96	
12249	Col4a5	-2.12	1466	51.76	470	24.42	
12250	Hectd2	-2.12	63	1.82	25	0.86	
12251	Naa38	-2.12	56	25.93	23	12.22	
12252	Unc13b	-2.12	55	1	33	0.47	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12253	Ncald	-2.12	117	5.25	41	2.47	
12254	Cast	-2.13	954	33.82	589	15.91	
12255	G6pc_1	-2.13	13	16.47	4	7.75	
12256	lsg15	-2.13	35	6.45	11	3.03	
12257	Ldlrad4	-2.13	151	3.89	106	1.83	
12258	Tlr5	-2.13	126	7.44	41	3.49	
12259	Coq7	-2.13	44	8.44	15	3.96	
12260	Acsl5	-2.13	203	15.74	65	7.38	
12261	Brca1	-2.14	112	3.37	42	1.58	
12262	Dynll1	-2.14	726	284.71	222	133.28	
12263	Fkbp1a	-2.14	1034	158.12	336	74.01	
12264	App1	-2.14	127	11.94	47	5.58	
12265	Axin2	-2.14	30	1.75	12	0.82	
12266	Myo9b	-2.14	896	24.92	292	11.64	
12267	Ptpn21	-2.14	454	18.48	157	8.62	
12268	Abrac1	-2.15	448	109.97	134	51.14	
12269	Gmds	-2.15	107	4.25	54	1.98	
12270	Xk	-2.15	31	1.23	12	0.57	
12271	Mrps9	-2.16	163	20.62	61	9.56	
12272	Cdipt	-2.16	296	39.45	95	18.27	
12273	Mgat1	-2.16	877	76	271	35.19	
12274	Arhgap28	-2.16	121	5.64	51	2.61	
12275	LOC100911453	-2.16	0	6.64	0	3.07	
12276	LOC679582	-2.16	40	2.51	19	1.16	
12277	Timm8a1_2	-2.16	38	23.23	14	10.74	
12278	Wnt5b	-2.16	30	2.13	9	0.98	
12279	AABR07054332.1	-2.16	0	5.89	0	2.73	
12280	Zfp238	-2.17	258	40.97	82	18.92	
12281	LOC100911572_1	-2.17	493	24.35	155	11.23	
12282	LOC100911361	-2.17	42	10.63	13	4.9	
12283	Ankh	-2.17	82	6.39	32	2.95	
12284	Klf7_1	-2.17	85	7.87	29	3.63	
12285	Sema4g	-2.17	42	2.36	13	1.09	
12286	LOC100911319_1	-2.17	261	25.14	81	11.56	
12287	Heatr3	-2.18	180	8.61	55	3.96	
12288	Cacng4	-2.18	26	1.21	12	0.55	
12289	Grk4	-2.18	67	2.23	54	1.03	
12290	Mcur1	-2.18	20	4.68	11	2.15	
12291	Rps6ka2	-2.18	68	2.63	26	1.21	
12292	Cfdp1	-2.18	552	29.15	201	13.37	
12293	Ndufb5	-2.18	301	59.59	98	27.27	
12294	Ttk	-2.19	67	3.98	25	1.82	
12295	Psph	-2.19	94	18.03	34	8.24	
12296	Lamb1	-2.19	1238	52.48	390	23.99	
12297	Wdr47	-2.19	157	7.53	54	3.44	
12298	Trip10	-2.19	218	26.81	85	12.25	
12299	RGD1566359	-2.19	86	37.59	27	17.15	
12300	Fchsd1	-2.19	126	6.98	41	3.18	
12301	Lmnb2	-2.2	97	10.01	30	4.55	
12302	Pam	-2.2	14646	689.68	4530	313.92	
12303	Fam49a	-2.2	200	6.97	64	3.17	
12304	Ubap2	-2.2	1017	56.96	333	25.89	
12305	Cxcl12	-2.2	32	0.74	15	0.33	
12306	Fsip1	-2.2	20	2.4	11	1.09	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12307	Gan	-2.2	67	4.38	24	1.99	
12308	Mrfap1_1	-2.2	3	0.92	1	0.42	
12309	Rell2	-2.2	11	2.3	3	1.04	
12310	RGD1560225	-2.2	61	1.81	15	0.82	
12311	Ascc3	-2.2	509	13.18	179	5.98	
12312	Map1s	-2.21	320	17.53	101	7.95	
12313	Dnajc21	-2.21	81	10.23	27	4.63	
12314	Pik3r1	-2.21	659	32.33	261	14.64	
12315	Irs2	-2.21	889	30.51	265	13.81	
12316	Stam2	-2.21	193	17.86	72	8.08	
12317	Kcnd3	-2.21	83	1.64	24	0.74	
12318	Cdc27	-2.21	565	36.89	195	16.67	
12319	AABR07053749.1	-2.21	100	33.39	34	15.09	
12320	Eno2	-2.21	1	8.23	0	3.72	
12321	MGC109340_1	-2.22	70	33.81	27	15.27	
12322	Rab30	-2.22	148	9.02	40	4.07	
12323	Wtip	-2.22	95	12.64	40	5.7	
12324	Syt1	-2.22	283	3.95	89	1.78	
12325	Pde5a	-2.22	69	3.08	34	1.39	
12326	Akt3	-2.22	194	17.16	91	7.72	
12327	Grb14	-2.23	2721	277.06	909	124.5	
12328	Pcsk6	-2.23	87	4.08	30	1.83	
12329	Iqgap1	-2.23	1796	70.7	572	31.72	
12330	Lrnf4	-2.23	14	8.52	7	3.82	
12331	Ryr2	-2.23	413	4.74	138	2.13	
12332	Ost4	-2.23	206	86.35	64	38.7	
12333	Uqcrq	-2.23	208	33.02	63	14.78	
12334	Zfp54	-2.24	16	1.56	10	0.7	
12335	Arl10	-2.24	88	12.41	34	5.55	
12336	Cox10	-2.24	113	6.74	47	3.01	
12337	Thoc6	-2.24	93	20.11	28	8.99	
12338	Plekhh1	-2.24	183	6.52	69	2.91	
12339	LOC100911874_2	-2.24	106	16.55	39	7.38	
12340	Phex	-2.24	287	17.12	99	7.64	
12341	Ostf1	-2.24	104	18.68	35	8.33	
12342	Alyref	-2.24	238	44.42	76	19.8	
12343	LOC100912375	-2.25	1	36.38	0	16.19	
12344	Ppp1r12a	-2.25	1408	44.17	475	19.65	
12345	Rpe	-2.25	128	10.28	48	4.56	
12346	Snurf	-2.25	14	12.23	3	5.43	
12347	Gls	-2.25	5483	131.84	1592	58.51	
12348	Pkia	-2.25	165	16.56	60	7.35	
12349	Bicd2	-2.25	528	19.23	166	8.53	
12350	Lgals3	-2.26	118	24.09	41	10.67	
12351	AC103574.4	-2.26	39	41.53	22	18.37	
12352	Cdca7	-2.26	48	4.92	13	2.18	
12353	Esyt2	-2.26	392	27.1	115	11.98	
12354	Ctnna3_2	-2.26	194	43.13	58	19.06	
12355	Zfp608	-2.27	230	6.89	69	3.04	
12356	Slc8a1	-2.27	425	16.58	124	7.31	
12357	Mpp6	-2.27	183	10.3	58	4.53	
12358	Sacs	-2.27	386	5.64	117	2.48	
12359	AABR07002774.1	-2.28	34	4.02	16	1.77	
12360	Cacna2d1	-2.28	554	16.42	247	7.21	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12361	Telo2	-2.28	320	20.74	113	9.1	
12362	Sept11	-2.28	2076	84.21	672	36.96	
12363	Dot1l	-2.28	789	23.32	238	10.23	
12364	AABR07008377.1	-2.28	18	33.98	4	14.89	
12365	Tubb2b	-2.28	982	251.38	288	110.03	
12366	Ptma_2	-2.29	25	33.5	11	14.65	
12367	Schip1	-2.29	218	11.51	58	5.04	
12368	Emp1	-2.29	1328	113.08	394	49.44	
12369	Atp6v1f	-2.29	152	59.29	47	25.9	
12370	Dusp3	-2.29	390	20.61	114	8.99	
12371	AABR07054262.2	-2.29	10	1.47	3	0.64	
12372	Ocln	-2.29	12	0.58	5	0.25	
12373	AABR07054554.1	-2.29	11	2.23	3	0.97	
12374	AABR07058886.1	-2.29	171	32.28	53	14.07	
12375	Ccdc167	-2.29	28	2.74	17	1.19	
12376	Cd46	-2.29	20	2.09	11	0.91	
12377	Dnajc17	-2.29	49	5.03	25	2.19	
12378	Dnph1	-2.29	10	3.22	4	1.41	
12379	Epb41l4a	-2.29	116	7.22	49	3.15	
12380	Fsd1l	-2.29	35	1.34	19	0.58	
12381	Hmgn5b	-2.29	0	1.23	1	0.53	
12382	Lif	-2.29	11	1.12	3	0.49	
12383	LOC102553962	-2.29	11	1.93	5	0.84	
12384	Rn60_4_1636.2	-2.29	10	2.81	3	1.23	
12385	Rpl39_5	-2.29	0	31.94	0	13.93	
12386	Scarf2	-2.29	75	4.51	23	1.97	
12387	Selm	-2.29	20	7.38	9	3.22	
12388	Ten1	-2.29	34	8.55	14	3.73	
12389	Nars	-2.3	663	61.24	200	26.66	
12390	Cdc42bpa	-2.3	517	15.32	186	6.66	
12391	Smarca1	-2.3	164	7.38	50	3.21	
12392	Rusc2	-2.3	719	38.3	225	16.63	
12393	Enah	-2.31	722	51.13	257	22.17	
12394	Terf1	-2.31	148	5.79	63	2.51	
12395	Haus8	-2.31	115	7.99	35	3.46	
12396	Sept7	-2.31	326	47.91	118	20.73	
12397	Gpr161	-2.31	65	4.33	21	1.87	
12398	Scn9a	-2.31	43	0.99	15	0.43	
12399	Hook3	-2.32	518	10.65	294	4.59	
12400	Lrrcc1	-2.32	120	6.42	55	2.77	
12401	Lurap1l	-2.32	35	5.87	30	2.53	
12402	Gmfg	-2.32	34	11.87	11	5.11	
12403	Rps10_1	-2.32	59	94.56	18	40.71	
12404	Zfp641	-2.32	28	3.24	10	1.39	
12405	Cacul1	-2.33	509	26.64	151	11.45	
12406	Urb2	-2.34	147	5.29	40	2.26	
12407	Ltbp4	-2.34	18	0.79	6	0.34	
12408	Snx10	-2.34	38	3.03	18	1.3	
12409	Gtdc1	-2.34	85	3.77	65	1.61	
12410	LOC100365556	-2.34	114	2.64	52	1.13	
12411	Rab9a	-2.34	85	13.32	36	5.69	
12412	Rps28_1	-2.34	86	162.44	33	69.42	
12413	Testin	-2.34	52	9.32	16	3.98	
12414	Sept8	-2.34	583	23.57	165	10.06	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12415	Bbs7	-2.34	140	9.4	54	4.01	
12416	Nagk	-2.34	146	18.25	44	7.79	
12417	Lpl	-2.35	101	6.72	29	2.86	
12418	Bcr	-2.36	561	29.85	188	12.68	
12419	Smurf1	-2.36	622	24.73	207	10.47	
12420	Msmo1	-2.37	1230	150.52	357	63.64	
12421	Klf4	-2.37	255	29.7	71	12.55	
12422	Rpl36	-2.37	36	188.83	26	79.7	
12423	Uvrag	-2.37	580	22.52	210	9.5	
12424	Fign	-2.37	91	2.29	41	0.96	
12425	Loxl2	-2.37	50	3.43	23	1.45	
12426	Uaca	-2.37	43	1.64	15	0.69	
12427	Rps27a	-2.38	7	76.71	3	32.29	
12428	Pgm2l1	-2.38	338	12.79	95	5.37	
12429	Fam107b	-2.39	63	4.12	19	1.73	
12430	Taf5l	-2.39	287	30.45	83	12.75	
12431	Ywhah	-2.39	1116	131.83	339	55.2	
12432	Arpc2	-2.39	1478	130.04	431	54.44	
12433	Rn60_X_0641.1	-2.39	146	19.21	42	8.03	
12434	Pvrl2	-2.39	878	58.4	246	24.41	
12435	Wis	-2.39	2709	108.07	834	45.15	
12436	Pfn1	-2.4	1962	572.23	566	238.72	
12437	Rassf1	-2.4	289	26.24	89	10.92	
12438	Golim4	-2.41	678	56.72	220	23.57	
12439	AC095390.1	-2.41	44	2.38	46	0.99	
12440	Ada	-2.41	163	2.5	14	1.04	
12441	Armcx1_1	-2.41	0	0.98	0	0.41	
12442	Clip3_1	-2.41	0	0.82	0	0.34	
12443	Etv5	-2.41	50	2.69	13	1.11	
12444	Fam131c	-2.41	8	1.27	2	0.53	
12445	Galnt18	-2.41	22	0.7	14	0.29	
12446	Kdr	-2.41	149	5.78	46	2.4	
12447	Kif21b	-2.41	9	0.31	3	0.13	
12448	Llph	-2.41	3	4.58	1	1.9	
12449	LOC100361180	-2.41	5	16.97	1	7.05	
12450	LOC690871	-2.41	39	19.25	16	7.99	
12451	Mrpl30	-2.41	11	1.19	3	0.49	
12452	Pdgfb	-2.41	31	3.19	12	1.33	
12453	Polm	-2.41	21	1.08	12	0.45	
12454	Pusl1	-2.41	31	3.42	13	1.42	
12455	RGD1561381	-2.41	4	3.82	2	1.59	
12456	Rrp15	-2.41	96	13.07	31	5.43	
12457	Spire2	-2.41	8	0.77	3	0.32	
12458	Vps13b	-2.41	51	6.34	18	2.63	
12459	Zfyve28	-2.41	22	0.44	7	0.18	
12460	AABR07050423.1	-2.41	14	3.47	10	1.44	
12461	Capn12	-2.41	25	0.59	5	0.25	
12462	Dnm3	-2.41	40	0.43	30	0.18	
12463	Hrct1	-2.41	27	21.73	8	9.02	
12464	Pdss1	-2.41	90	2.41	28	1	
12465	RGD1560831	-2.41	5	2.39	2	0.99	
12466	Rrs1	-2.41	63	9.71	18	4.03	
12467	Luzp1	-2.42	482	9.89	140	4.08	
12468	Sdc1	-2.42	1082	86.44	304	35.65	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12469	Sema3c	-2.44	1870	82.63	537	33.85	
12470	Tceb2	-2.44	286	150.18	92	61.47	
12471	Fus	-2.44	552	110.71	269	45.31	
12472	Zfp703	-2.44	136	10.49	38	4.29	
12473	Erf	-2.45	256	13.36	65	5.46	
12474	AABR07035796.1	-2.45	32	11.88	9	4.86	
12475	Spata5i1	-2.45	51	3.19	15	1.3	
12476	1700021K19Rik	-2.45	312	18.72	112	7.64	
12477	Rab3b	-2.45	74	12.36	18	5.04	
12478	Yars	-2.45	385	31.75	108	12.95	
12479	Hdac7	-2.45	263	14.88	74	6.07	
12480	Gspt1	-2.46	1293	51.42	380	20.92	
12481	Ezr	-2.46	422	32.9	120	13.36	
12482	Serinc3	-2.47	2768	312.88	760	126.88	
12483	Dock8	-2.47	60	1.43	34	0.58	
12484	Micall1	-2.47	60	2.18	17	0.88	
12485	RGD1565183	-2.47	19	32.76	8	13.27	
12486	Gprin3	-2.48	18	1.69	5	0.68	
12487	Lingo1	-2.48	20	1.82	6	0.74	
12488	LOC100912253	-2.48	1	2.2	0	0.89	
12489	Mttr12	-2.48	233	14.19	78	5.73	
12490	Osr2	-2.48	21	2.21	7	0.89	
12491	Pcdh20	-2.48	36	1.73	10	0.7	
12492	Phactr2	-2.48	48	2.27	19	0.91	
12493	Znhit1	-2.48	59	10.91	22	4.4	
12494	Rhpn2	-2.48	25	1.41	9	0.57	
12495	S100a10	-2.49	1306	541.82	355	218	
12496	Rn60_5_0791.1	-2.49	509	21.57	136	8.67	
12497	Finc	-2.49	2784	75.92	770	30.52	
12498	Bcs1l	-2.49	54	7.1	16	2.85	
12499	Synpo2	-2.49	87	2.82	38	1.14	
12500	Cmtm7	-2.49	574	30.41	158	12.2	
12501	Coprs	-2.49	36	13.09	9	5.25	
12502	Chmp6	-2.5	86	15.67	26	6.27	
12503	Syde1	-2.5	354	34.26	102	13.71	
12504	Cux1	-2.5	928	36.89	317	14.77	
12505	Ddit3	-2.5	134	18.59	38	7.44	
12506	Ilk	-2.5	1456	210.97	405	84.31	
12507	Shisa2	-2.5	46	10.39	11	4.15	
12508	Mpp5	-2.51	773	34.12	230	13.6	
12509	Fdps	-2.51	2762	210.69	797	83.93	
12510	Pcdhb20	-2.52	10	0.81	3	0.32	
12511	Clec2j	-2.52	28	5.19	4	2.06	
12512	Eng	-2.52	11	0.9	3	0.36	
12513	Fbln2	-2.52	13	0.64	4	0.25	
12514	Hmgn5	-2.52	0	1.4	0	0.55	
12515	Ifit1lb	-2.52	14	1.22	12	0.48	
12516	Ift43	-2.52	128	16.43	42	6.51	
12517	Lamc2	-2.52	11	0.53	5	0.21	
12518	LOC102550026	-2.52	19	1.81	3	0.72	
12519	LOC688459	-2.52	119	21	31	8.32	
12520	Mrpl54	-2.52	67	26.91	19	10.67	
12521	Npepo	-2.52	171	2.99	99	1.19	
12522	Rpl32_2	-2.52	0	12.18	0	4.83	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12523	Slc6a15	-2.52	11	0.7	5	0.28	
12524	Sqrdl	-2.52	72	9.27	23	3.67	
12525	Tlcd2	-2.52	13	1.3	4	0.51	
12526	Ubxn2a	-2.52	9	3.53	5	1.4	
12527	Xrcc4	-2.52	56	3.81	43	1.51	
12528	Rab27b	-2.52	15	2.06	16	0.82	
12529	Slc9a9	-2.52	52	0.79	39	0.31	
12530	RGD1359290	-2.54	52	18.04	20	7.1	
12531	Rpl13	-2.54	28	56.41	9	22.2	
12532	Hnrnpab_1	-2.54	2	123.22	0	48.47	
12533	Gtf2f1	-2.54	270	36.92	76	14.52	
12534	Sbds	-2.54	205	30.39	63	11.95	
12535	Bach2	-2.55	142	2.46	36	0.96	
12536	Nap1l3	-2.55	37	3.3	10	1.29	
12537	Pak1ip1	-2.55	82	11.93	25	4.68	
12538	Cystm1	-2.55	182	59.47	43	23.33	
12539	Met	-2.55	668	31.78	186	12.46	
12540	Wdr1	-2.55	1632	129.7	427	50.78	
12541	Vasp	-2.56	566	59.75	150	23.38	
12542	Osmr	-2.56	43	2.24	11	0.88	
12543	Vim	-2.56	7900	1043.22	2114	407.89	
12544	Cfl1	-2.56	3422	921.35	910	360.1	
12545	Angptl4	-2.56	71	8.84	23	3.45	
12546	Cox6b1_2	-2.57	25	39.14	8	15.26	
12547	Lyn	-2.57	189	9.23	53	3.59	
12548	Bloc1s2	-2.57	115	24.82	36	9.64	
12549	Acsl1	-2.58	351	19.05	92	7.39	
12550	Ccdc141	-2.58	75	1.46	17	0.56	
12551	Eme1	-2.58	18	1.34	6	0.52	
12552	LOC100360002	-2.58	0	12.13	0	4.7	
12553	Plekhg1	-2.58	47	1.22	13	0.47	
12554	Y_RNA_9	-2.58	13	33.37	4	12.93	
12555	Chst7	-2.58	32	3.24	9	1.26	
12556	Actr3	-2.58	1458	136.91	396	53	
12557	Papd5	-2.59	317	13.98	98	5.4	
12558	Iltgav	-2.59	1506	101.31	411	39.13	
12559	Actr2	-2.59	492	65.2	150	25.15	
12560	Klf8	-2.6	94	3.76	27	1.45	
12561	Cnst	-2.6	217	14.33	57	5.52	
12562	Foxo4	-2.6	12	2.56	5	0.98	
12563	Nme2	-2.6	650	214.76	178	82.51	
12564	Mbnl1	-2.6	590	58.82	183	22.59	
12565	Atf5	-2.61	112	26.61	32	10.19	
12566	Ppap2b	-2.61	290	19.34	81	7.41	
12567	Rala	-2.61	157	33.03	44	12.65	
12568	BC030336	-2.62	33	11.87	14	4.54	
12569	Tmc7	-2.62	25	1.07	11	0.41	
12570	Zc2hc1a	-2.62	113	8.31	32	3.18	
12571	Pawr	-2.62	1136	75.89	308	28.99	
12572	Crebzf	-2.62	391	54.29	127	20.73	
12573	Lrrk2	-2.62	153	3.6	73	1.38	
12574	Osbpl3	-2.62	136	3.61	32	1.38	
12575	Sparc	-2.62	5022	605.22	1313	230.61	
12576	Sh3bgrl	-2.63	181	75.04	69	28.58	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12577	Sipa1	-2.63	91	6.06	23	2.31	
12578	Shroom4	-2.63	466	11.27	125	4.28	
12579	Nbas	-2.64	1289	31.13	350	11.81	
12580	AC095263.1	-2.64	32	6.53	13	2.47	
12581	Frem2	-2.64	24	0.58	10	0.22	
12582	Lonrf1	-2.64	170	11.47	54	4.35	
12583	Prkaa2	-2.64	150	11.18	48	4.23	
12584	Kctd10	-2.64	449	33.66	119	12.74	
12585	Fnip2	-2.65	70	2.83	22	1.07	
12586	Afap1	-2.66	492	17.02	134	6.4	
12587	AABR07067760.1	-2.66	84	79.32	28	29.83	
12588	Atf4	-2.67	1257	220.89	322	82.69	
12589	Actb	-2.67	43601	7899.18	11218	2956.77	
12590	Rab11fip1	-2.67	843	25.78	216	9.64	
12591	Gapdh-ps2	-2.67	71	238.95	36	89.35	
12592	Ss18l2	-2.68	38	14.51	12	5.42	
12593	RGD1304622	-2.68	93	5.4	27	2.02	
12594	Frmf6	-2.68	327	16.17	88	6.03	
12595	Vrk2	-2.68	63	4.29	29	1.6	
12596	Zfp57	-2.69	153	16.95	34	6.3	
12597	Mrpl33	-2.7	62	49.62	22	18.41	
12598	Dock5	-2.7	840	27.01	237	10.01	
12599	P4ha1	-2.7	1492	146.61	401	54.28	
12600	Cyld	-2.7	228	19.24	69	7.12	
12601	Rbms1	-2.71	772	35.34	268	13.04	
12602	Hdac5	-2.71	468	36.21	113	13.34	
12603	Creb3	-2.71	861	135.16	218	49.79	
12604	Map2k3	-2.72	0	10.22	0	3.75	
12605	Zbtb46	-2.75	85	2.76	31	1	
12606	AABR07024666.1	-2.75	0	4.68	0	1.7	
12607	AABR07026359.1	-2.75	0	1.08	0	0.39	
12608	AABR07041140.1	-2.75	2	0.78	1	0.28	
12609	AABR07050399.2	-2.75	0	0.52	0	0.19	
12610	AABR07066677.1	-2.75	1	4.43	1	1.61	
12611	AABR07071482.1	-2.75	1	2.37	0	0.86	
12612	AABR07071701.1	-2.75	10	8.74	3	3.18	
12613	Abhd15	-2.75	4	0.32	2	0.12	
12614	AC131360.2	-2.75	3	0.41	1	0.15	
12615	Adat2	-2.75	7	1.76	6	0.64	
12616	B3gnt5	-2.75	8	0.47	2	0.17	
12617	Ccno	-2.75	4	0.53	1	0.19	
12618	Cldn2	-2.75	6	0.22	1	0.08	
12619	Cnksr2	-2.75	35	0.79	10	0.29	
12620	Csgalnact1	-2.75	33	1.84	12	0.67	
12621	Dbf4_2	-2.75	2	1	0	0.36	
12622	Foxc1	-2.75	4	0.25	1	0.09	
12623	Kcng3	-2.75	6	0.63	8	0.23	
12624	LOC100912034	-2.75	2	0.55	0	0.2	
12625	LOC100912373	-2.75	5	1.15	2	0.42	
12626	Lppr4	-2.75	17	0.72	5	0.26	
12627	Lrrc34	-2.75	9	1.02	5	0.37	
12628	Lrrc51	-2.75	9	1.37	5	0.5	
12629	Lsm11	-2.75	49	7.84	13	2.85	
12630	Mboat7	-2.75	0	0.7	0	0.25	

Supplemental Table 2
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	A	B	C	D	E	F	G
12631	Mpzi2	-2.75	21	1.53	6	0.56	
12632	Nrip3	-2.75	50	2.58	12	0.94	
12633	Ocel1	-2.75	24	4.7	6	1.71	
12634	Pik3ap1	-2.75	17	0.65	7	0.24	
12635	Plce1	-2.75	10	0.1	9	0.04	
12636	Plekhh2	-2.75	130	4.66	39	1.69	
12637	Pyroxd1	-2.75	67	6.17	21	2.24	
12638	Rgcc	-2.75	4	1.12	3	0.41	
12639	RGD1564606	-2.75	0	4.23	0	1.54	
12640	Rn60_18_0532.1	-2.75	0	1.99	0	0.72	
12641	Rps15a2	-2.75	3	2.54	0	0.92	
12642	Rragd	-2.75	8	0.69	1	0.25	
12643	Ryr1	-2.75	9	0.07	36	0.02	
12644	Sapcd2	-2.75	12	1.93	6	0.7	
12645	Slc16a4	-2.75	58	0.5	48	0.18	
12646	Slc4a11	-2.75	14	0.98	4	0.36	
12647	SNORD88_3	-2.75	4	11.07	1	4.02	
12648	Stk10	-2.75	58	3.62	29	1.31	
12649	Trim71	-2.75	5	0.39	4	0.14	
12650	Ttll3	-2.75	29	0.44	15	0.16	
12651	Vwa7	-2.75	11	0.67	6	0.24	
12652	AABR07011031.1	-2.75	31	6.45	6	2.34	
12653	AABR07028907.1	-2.75	5	0.79	3	0.29	
12654	AABR07055492.1	-2.75	13	1.13	3	0.41	
12655	AABR07062268.1	-2.75	0	2.08	0	0.75	
12656	AABR07062344.1	-2.75	0	7.91	0	2.87	
12657	Ank3	-2.75	35	0.48	17	0.17	
12658	Apopt1	-2.75	0	0.9	0	0.33	
12659	Cask_1	-2.75	0	0.93	0	0.34	
12660	Cntnap5c	-2.75	54	0.52	29	0.19	
12661	Dok6	-2.75	53	1.38	26	0.5	
12662	Dync1i1	-2.75	49	1.89	15	0.68	
12663	Esr1	-2.75	21	0.18	18	0.06	
12664	Fbxl22	-2.75	13	0.22	2	0.08	
12665	Frmppd4	-2.75	8	0.19	2	0.07	
12666	Gadd45gip1	-2.75	42	8.22	17	2.99	
12667	Gmfb	-2.75	58	26.06	18	9.47	
12668	Gucy1a2	-2.75	22	0.45	22	0.17	
12669	Heatr4	-2.75	5	0.25	2	0.09	
12670	Hmmr	-2.75	27	2.62	14	0.95	
12671	LOC100359687	-2.75	1	4.65	0	1.69	
12672	LOC100362583	-2.75	2	3.27	0	1.19	
12673	LOC100362999	-2.75	1	0.63	0	0.23	
12674	LOC100911951	-2.75	0	0.39	0	0.14	
12675	LOC102549817	-2.75	31	1.1	35	0.4	
12676	LOC686013	-2.75	11	0.68	8	0.25	
12677	Map7d3	-2.75	9	0.29	7	0.11	
12678	Nr1h3	-2.75	5	0.61	2	0.22	
12679	Orai2	-2.75	16	0.47	3	0.17	
12680	Pcdhb21	-2.75	3	0.34	1	0.12	
12681	Pinx1	-2.75	93	8.41	38	3.05	
12682	Pla2g4f	-2.75	4	0.41	3	0.15	
12683	Ptp4a3	-2.75	18	3	4	1.09	
12684	Ptprq	-2.75	9	0.13	10	0.05	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12685	Robo2	-2.75	145	2.22	41	0.81	
12686	Slc9b2	-2.75	8	0.51	2	0.18	
12687	Stk26	-2.75	4	0.3	2	0.11	
12688	Tceal5	-2.75	2	1.65	0	0.6	
12689	Triap1	-2.75	0	4.31	0	1.57	
12690	Uchl3	-2.75	1	4.31	1	1.57	
12691	Wisp1	-2.75	4	0.2	2	0.07	
12692	Ppp1r14b	-2.76	558	191.45	139	69.3	
12693	Tsc22d2	-2.76	344	11.43	113	4.13	
12694	Fzd4	-2.77	358	13.03	89	4.71	
12695	Nhs1	-2.77	198	7.77	60	2.81	
12696	Itga6	-2.77	3109	120.45	784	43.47	
12697	Asap2	-2.77	211	11.66	65	4.2	
12698	Itga3	-2.78	343	18.03	86	6.49	
12699	Cgn	-2.78	118	5.14	31	1.85	
12700	Ppp2cb	-2.78	1685	235.02	418	84.52	
12701	Cd151	-2.78	20	59.13	5	21.26	
12702	Arpc1b	-2.79	659	107.16	168	38.45	
12703	Lrrfip2	-2.79	145	10.04	64	3.6	
12704	Prnp	-2.79	2380	262.31	565	93.98	
12705	Hebp1	-2.8	75	14.31	30	5.11	
12706	Gypc	-2.8	166	18.98	35	6.77	
12707	Slc6a9	-2.8	121	8.33	37	2.97	
12708	Tbc1d23	-2.8	807	35.82	217	12.77	
12709	Nab2	-2.81	228	12.26	49	4.37	
12710	Macf1	-2.82	4603	37.03	1176	13.14	
12711	Ttc7b	-2.82	1102	68.88	282	24.43	
12712	Ppp1r13l	-2.82	97	8.25	21	2.92	
12713	Chn1	-2.83	189	9.45	49	3.34	
12714	Pmaip1	-2.83	38	3.34	9	1.18	
12715	Rab32	-2.83	89	5.71	21	2.02	
12716	Bcor	-2.83	521	18.69	125	6.61	
12717	Gnal	-2.83	224	10.16	135	3.59	
12718	Mafk	-2.84	381	31.46	86	11.09	
12719	Dbndd2	-2.84	34	7.07	8	2.49	
12720	Trim47	-2.84	79	7.03	17	2.47	
12721	Ston1	-2.85	302	21.73	73	7.63	
12722	S100a11	-2.86	756	733.23	188	256.01	
12723	Cars	-2.86	476	31.48	112	10.99	
12724	AABR07005618.1	-2.87	26	14.32	7	4.99	
12725	Dusp5	-2.87	34	2.58	9	0.9	
12726	Rps19	-2.87	76	354.6	18	123.67	
12727	Svil	-2.87	738	19.21	189	6.7	
12728	Ppp1r12b	-2.88	1777	38.69	484	13.45	
12729	S100a4	-2.88	94	35.1	22	12.2	
12730	Rras	-2.89	174	45.11	41	15.63	
12731	AABR07005535.1	-2.89	21	2.31	5	0.8	
12732	Arhgap42	-2.89	419	17.23	117	5.96	
12733	Pak7	-2.89	51	1.21	23	0.42	
12734	RGD1562758	-2.89	8	10.44	2	3.61	
12735	Kif23	-2.89	650	39.8	155	13.76	
12736	Aldh18a1	-2.89	0	16.28	0	5.63	
12737	Gss	-2.9	146	16.15	47	5.58	
12738	Cdk14	-2.9	466	12.13	127	4.19	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12739	Anxa1	-2.9	1533	226.1	355	78.04	
12740	Jdp2	-2.9	92	12.71	22	4.38	
12741	Trmt13	-2.91	61	4.27	36	1.47	
12742	Cd2ap	-2.91	258	23.47	78	8.06	
12743	Pqlc3	-2.91	615	69.82	141	23.99	
12744	Pet100	-2.91	44	11.45	7	3.93	
12745	Plk3	-2.91	57	5.74	15	1.97	
12746	Shisa4	-2.91	94	30.2	22	10.36	
12747	Slc24a3	-2.92	324	28.05	74	9.62	
12748	Pde4dip	-2.92	359	5.78	155	1.98	
12749	Fgd6	-2.92	29	0.77	8	0.26	
12750	Gemin6	-2.92	17	3.89	6	1.33	
12751	Pid1	-2.92	35	1.46	11	0.5	
12752	Ppip5k1	-2.94	805	17.2	266	5.86	
12753	Spata13	-2.94	888	29.75	239	10.12	
12754	Mtfr1	-2.94	38	10.99	11	3.74	
12755	Etl4	-2.94	2288	44	487	14.95	
12756	Cdyl	-2.95	365	18.6	86	6.3	
12757	Ppp1r15a	-2.95	458	45.51	104	15.41	
12758	Rpl17	-2.97	315	193.08	89	65.08	
12759	Btg2	-2.97	151	14.69	36	4.95	
12760	Spp1	-2.98	577	93.66	132	31.46	
12761	Plxna2	-2.98	1000	20.29	239	6.81	
12762	Nkd2	-2.98	29	1.61	6	0.54	
12763	Rp2	-2.98	56	2.06	32	0.69	
12764	Abhd3	-2.98	45	3.39	18	1.14	
12765	Gfra2	-2.98	18	1.16	6	0.39	
12766	Myl6b	-2.98	49	5.19	30	1.74	
12767	Rel	-2.98	17	1.83	4	0.61	
12768	RGD1565048	-2.98	2	5.43	0	1.82	
12769	Slc25a29	-2.98	20	1.08	9	0.36	
12770	Zfp583	-2.98	13	1.36	4	0.45	
12771	Zfp717	-2.98	5	0.83	2	0.28	
12772	Carns1	-2.98	18	1.14	4	0.38	
12773	AABR07027388.1	-3.01	12	58.37	3	19.39	
12774	F2rl1	-3.01	36	2.93	9	0.97	
12775	Snap23	-3.01	74	13.78	28	4.58	
12776	Hyi	-3.01	30	8.39	11	2.79	
12777	Rictor	-3.01	712	22.65	176	7.52	
12778	Nedd9	-3.01	189	8.41	45	2.79	
12779	Kif5c	-3.01	125	3.48	30	1.15	
12780	Pik3r3	-3.02	314	24.6	77	8.14	
12781	Thsd7a	-3.02	186	5.1	47	1.69	
12782	Fbln5	-3.02	1038	90.41	214	29.89	
12783	Clcf1	-3.03	99	9.71	21	3.21	
12784	Dclre1c	-3.03	54	2.31	34	0.76	
12785	Rasa3	-3.03	336	20.09	79	6.63	
12786	LOC690468	-3.04	73	192.42	16	63.33	
12787	Tdrp	-3.04	62	4.99	13	1.64	
12788	Wwc3	-3.04	500	19.1	114	6.27	
12789	Cd99	-3.04	350	115.14	87	37.81	
12790	Ccs	-3.07	82	11.02	26	3.59	
12791	MGC95208	-3.07	23	8.28	2	2.7	
12792	Armc6	-3.08	97	10.05	24	3.27	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12793	Cdc42ep1	-3.08	201	18.21	45	5.91	
12794	AABR07047011.1	-3.08	57	7.94	16	2.58	
12795	Clic1	-3.09	731	182.62	190	59.01	
12796	RGD1564688	-3.1	2	8.95	0	2.89	
12797	Bdkrb2	-3.1	9	0.54	2	0.18	
12798	Dtx4	-3.1	11	1.14	5	0.37	
12799	Fgf13	-3.1	12	0.77	10	0.25	
12800	Fgf18	-3.1	14	4.04	11	1.3	
12801	LOC100363408	-3.1	107	49.7	26	16.05	
12802	LOC100911256	-3.1	0	0.35	0	0.11	
12803	Nthl1	-3.1	47	7.59	13	2.45	
12804	RGD1562399	-3.1	2	2.56	0	0.83	
12805	RGD1564698	-3.1	3	4.02	2	1.3	
12806	AABR07028027.1	-3.1	0	1.76	0	0.57	
12807	Aldh1l2	-3.1	20	0.81	3	0.26	
12808	Cenpw	-3.1	15	1.4	2	0.45	
12809	Grhl1	-3.1	21	1.42	6	0.46	
12810	Isg20	-3.1	19	2.57	6	0.83	
12811	Pak1	-3.1	76	4.63	20	1.5	
12812	Pmel	-3.1	10	0.92	5	0.3	
12813	Psmc10	-3.1	13	4.27	7	1.38	
12814	RGD1562953	-3.1	4	8.27	1	2.67	
12815	Samhd1	-3.1	73	5.35	16	1.73	
12816	Scml2	-3.1	14	0.52	13	0.17	
12817	Zfx3	-3.1	619	11.21	149	3.62	
12818	Cadm1	-3.1	287	25.34	59	8.16	
12819	Eea1	-3.11	282	9.52	73	3.07	
12820	Ptpn14	-3.11	210	9.79	64	3.15	
12821	Rnft1	-3.11	104	17.95	27	5.76	
12822	Fermt2	-3.12	1636	104.2	370	33.38	
12823	Col5a2	-3.12	3200	172.06	690	55.09	
12824	Filip1l	-3.12	6104	92.85	539	29.73	
12825	Ahnak2	-3.14	449	6.56	98	2.09	
12826	Brip1	-3.15	67	1.82	33	0.58	
12827	Gpr176	-3.15	876	30.43	160	9.66	
12828	Psd3	-3.15	1156	39.77	389	12.62	
12829	Col4a1	-3.16	627	23.29	141	7.37	
12830	Ankrd50	-3.16	669	18.02	143	5.7	
12831	Dmd	-3.16	1509	16.15	321	5.11	
12832	5S_rRNA_260	-3.16	17	355.95	5	112.58	
12833	Col8a1	-3.16	2254	108.91	453	34.43	
12834	Krt18	-3.17	20	4.19	5	1.32	
12835	Ccdc107	-3.18	75	31.57	19	9.94	
12836	Pls3	-3.18	2191	146.69	491	46.1	
12837	Leng1	-3.18	34	4.99	12	1.57	
12838	Igf1	-3.18	1422	132.93	315	41.76	
12839	Atp5i	-3.19	99	75.87	19	23.8	
12840	Hip1	-3.19	1560	40.54	325	12.71	
12841	Plk2	-3.19	399	34.03	85	10.67	
12842	Prss23	-3.19	3649	337.06	777	105.68	
12843	Nuak1	-3.2	95	2.99	23	0.94	
12844	Klf5	-3.2	76	6.8	16	2.12	
12845	Dusp6	-3.2	256	23.16	55	7.23	
12846	Prkcdp	-3.21	353	68.8	76	21.46	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12847	Rb1cc1	-3.21	849	24.37	183	7.6	
12848	Unc119	-3.21	386	69.88	84	21.78	
12849	AABR07008016.1	-3.21	20	10.2	5	3.18	
12850	AABR07015006.1	-3.21	6	3.65	2	1.14	
12851	LOC100912042	-3.21	0	3.01	0	0.94	
12852	LOC100912427	-3.21	0	3.6	0	1.12	
12853	LOC691931	-3.21	32	4.88	5	1.52	
12854	Pin4	-3.21	28	15	11	4.67	
12855	Ube2q2l	-3.21	42	6.88	9	2.14	
12856	Col4a2	-3.22	486	23.61	101	7.33	
12857	Inf2	-3.22	268	15.59	52	4.84	
12858	Efnb2	-3.23	153	7.16	36	2.22	
12859	Pfdn6	-3.23	64	39.58	14	12.26	
12860	Errfi1	-3.23	420	27.51	91	8.5	
12861	Tmem151a	-3.23	84	4.71	28	1.46	
12862	Tgfb1i1	-3.24	851	105.1	188	32.46	
12863	Map1a	-3.24	1944	43.1	409	13.29	
12864	Lpp	-3.25	1176	56.32	302	17.35	
12865	Snx18	-3.25	900	48.2	184	14.83	
12866	Akap13	-3.25	2022	35.04	455	10.78	
12867	AABR07010705.1	-3.27	31	8.5	5	2.6	
12868	Znhit3	-3.27	23	10.38	7	3.18	
12869	Dcun1d3	-3.27	66	6.43	28	1.97	
12870	Hs3st3b1	-3.27	24	1.25	5	0.38	
12871	Necab1	-3.27	47	1.08	22	0.33	
12872	Spsb2_2	-3.27	0	3.83	0	1.17	
12873	Pkig	-3.28	1512	220.82	273	67.4	
12874	AABR07015055.1	-3.28	0	37.59	0	11.45	
12875	Arl4a	-3.29	91	20.72	19	6.3	
12876	Amot	-3.3	276	9.05	57	2.74	
12877	LOC100912106	-3.3	0	18.6	0	5.63	
12878	RGD1564405	-3.3	16	2.97	3	0.9	
12879	Nme1	-3.31	136	42.32	29	12.79	
12880	Iars	-3.31	455	25.13	101	7.58	
12881	Car3	-3.33	29	4.56	7	1.37	
12882	Irx3	-3.33	30	4.61	6	1.39	
12883	Palm2	-3.34	198	5.75	64	1.72	
12884	Rn60_8_0646.1	-3.35	308	10.01	62	2.99	
12885	Cpeb2	-3.35	101	3.66	29	1.09	
12886	Nin	-3.35	16	4.34	3	1.29	
12887	LOC102551071	-3.36	3730	560.88	749	167.16	
12888	LOC100910771	-3.36	0	5.24	0	1.56	
12889	Pmepa1	-3.37	158	13.98	41	4.15	
12890	Slc25a26	-3.37	146	11.01	37	3.26	
12891	Iltgb1	-3.39	5904	392.75	1209	116	
12892	Npnt	-3.39	513	41.93	92	12.38	
12893	Raph1	-3.39	255	12.6	75	3.72	
12894	Slc1a4	-3.39	886	49.51	168	14.6	
12895	Dsp	-3.4	242	6.17	49	1.82	
12896	Lasp1	-3.42	3494	235.64	711	68.81	
12897	Msn	-3.43	1610	80.88	327	23.61	
12898	Ckap2l	-3.44	60	5.09	15	1.48	
12899	Ppp2r2c	-3.44	297	0.76	173	0.22	
12900	AABR07015066.1	-3.44	0	48.5	0	14.1	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12901	AABR07015505.1	-3.44	0	1.97	0	0.57	
12902	AABR07019412.1	-3.44	5	1.47	1	0.43	
12903	AABR07049961.1	-3.44	1	0.73	0	0.21	
12904	AABR07055280.1	-3.44	3	2.92	1	0.85	
12905	AC117101.1	-3.44	1	5.54	0	1.61	
12906	Afmid	-3.44	8	0.5	11	0.14	
12907	Akr1c12	-3.44	7	1.01	1	0.29	
12908	Egr3	-3.44	10	0.92	2	0.27	
12909	Fam57b	-3.44	6	0.73	2	0.21	
12910	Fgfbp3	-3.44	10	1.45	2	0.42	
12911	Hey1	-3.44	7	1.33	1	0.39	
12912	Itgb1bp2	-3.44	19	2.93	6	0.85	
12913	Lacc1	-3.44	25	4.65	5	1.35	
12914	LOC100361913	-3.44	0	4.8	0	1.4	
12915	LOC100363452	-3.44	3	5.74	1	1.67	
12916	LOC100911713	-3.44	1	3.27	0	0.95	
12917	LOC682408	-3.44	1	0.83	0	0.24	
12918	Lrrc3b	-3.44	5	1.6	1	0.46	
12919	Pkhd1	-3.44	7	0.26	2	0.07	
12920	RGD1564664	-3.44	10	1.79	2	0.52	
12921	RGD1564792	-3.44	15	8.04	3	2.34	
12922	Rps2_1	-3.44	5	1.1	0	0.32	
12923	SCARNA13_1	-3.44	5	4.53	1	1.32	
12924	Snap91	-3.44	41	1.47	7	0.43	
12925	Sox9	-3.44	5	0.36	1	0.11	
12926	Spag4	-3.44	0	0.93	0	0.27	
12927	Spryd7	-3.44	18	2.72	6	0.79	
12928	Stbd1	-3.44	26	3.22	5	0.94	
12929	Tesc	-3.44	11	1.93	6	0.56	
12930	Ube2t	-3.44	6	2.03	5	0.59	
12931	AABR07015040.1	-3.44	8	2.07	2	0.6	
12932	AABR07051207.1	-3.44	0	11.22	0	3.26	
12933	AABR07064980.1	-3.44	0	3.92	0	1.14	
12934	Arsj	-3.44	5	0.88	1	0.26	
12935	Cbln2	-3.44	10	1.06	2	0.31	
12936	Dnaaf3	-3.44	6	0.53	1	0.15	
12937	Eef1a2	-3.44	5	0.62	1	0.18	
12938	Fscn3	-3.44	5	0.69	3	0.2	
12939	Gng11	-3.44	0	1.43	0	0.42	
12940	Grm8	-3.44	58	0.31	33	0.09	
12941	Itgb3	-3.44	62	4.17	18	1.21	
12942	LOC100911319_2	-3.44	3	0.86	0	0.25	
12943	Mecom	-3.44	6	0.26	1	0.07	
12944	Pgbd5	-3.44	12	0.62	6	0.18	
12945	Ppapdc2	-3.44	0	0.44	0	0.13	
12946	Rpl31l3	-3.44	5	3.3	1	0.96	
12947	SCARNA2_1	-3.44	5	2.99	1	0.87	
12948	Spata24	-3.44	9	1.55	12	0.45	
12949	Tmem35	-3.44	5	0.64	3	0.19	
12950	Zfp709l1	-3.44	3	0.83	5	0.24	
12951	Zp4	-3.44	5	0.73	2	0.21	
12952	Lhfp	-3.47	671	49.38	110	14.25	
12953	Btbd3	-3.47	237	23.59	45	6.79	
12954	Tead3	-3.48	183	8.57	35	2.47	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
12955	Fstl1	-3.48	2227	115.27	431	33.08	
12956	AABR07015078.1	-3.49	0	46.07	0	13.21	
12957	Rassf8	-3.49	620	24.58	117	7.05	
12958	Fam169b	-3.49	84	5.47	20	1.56	
12959	Sept5	-3.5	140	8.55	26	2.44	
12960	Esyt1	-3.5	2059	144.85	402	41.41	
12961	Elk3	-3.5	65	3.65	14	1.04	
12962	LOC680121	-3.52	2	10.92	0	3.1	
12963	Csrnp1	-3.53	214	15.94	48	4.51	
12964	AABR07036855.1	-3.54	29	16.08	8	4.54	
12965	Cep55	-3.54	38	3.6	9	1.02	
12966	Avpi1	-3.54	138	33.1	31	9.35	
12967	Itga1	-3.54	408	19.06	82	5.38	
12968	S100a6	-3.54	359	184.76	70	52.16	
12969	Tns1	-3.54	264	9.86	66	2.78	
12970	Junb	-3.54	103	14.39	20	4.06	
12971	Slc12a2	-3.55	1134	39.51	234	11.14	
12972	Peak1	-3.55	939	23.28	210	6.56	
12973	Maml2	-3.56	245	4.38	61	1.23	
12974	Mrap2	-3.57	200	16.23	54	4.54	
12975	Lims1	-3.58	482	48.82	96	13.64	
12976	Ahnak	-3.61	5614	77.28	1061	21.41	
12977	Fam131b	-3.61	21	1.3	4	0.36	
12978	Procr	-3.62	411	66.95	79	18.47	
12979	Ripk2	-3.63	219	11.86	46	3.27	
12980	Hspa4l	-3.64	40	2.22	9	0.61	
12981	Itgb8	-3.64	63	2.64	15	0.73	
12982	Plcx2	-3.64	47	1.17	7	0.32	
12983	Specc1	-3.64	648	14.71	135	4.04	
12984	Popdc2	-3.65	100	5.94	23	1.63	
12985	Tns2	-3.65	56	3.14	15	0.86	
12986	Asb4	-3.67	22	1.14	9	0.31	
12987	Homer1	-3.67	114	5.45	35	1.49	
12988	Mob3b	-3.67	103	7.02	19	1.91	
12989	Rps2-ps6	-3.67	5	53.09	2	14.47	
12990	Dzip1l	-3.67	238	13.42	51	3.66	
12991	Eda	-3.67	51	1.1	23	0.3	
12992	Esrp2	-3.67	16	1	3	0.27	
12993	Lnp	-3.67	100	7.86	29	2.14	
12994	Vldlr	-3.69	1457	102.31	276	27.76	
12995	Mllt11	-3.69	211	29.39	49	7.96	
12996	Fstl3	-3.72	28	3.55	5	0.95	
12997	Cobl	-3.72	320	11.02	79	2.96	
12998	Cdk6	-3.72	355	24.32	100	6.53	
12999	Flna	-3.74	25552	749.66	4694	200.36	
13000	Egr1	-3.75	529	42.03	95	11.22	
13001	Wipf1	-3.75	103	6.5	20	1.73	
13002	Mthfd1l	-3.75	201	10.54	47	2.81	
13003	Myo10	-3.75	2548	79.63	502	21.21	
13004	Akap2	-3.76	1029	64.51	194	17.15	
13005	Mef2c	-3.77	394	11.43	72	3.03	
13006	Tjp2	-3.78	257	10.24	55	2.71	
13007	Fxyd5	-3.78	11	2.74	2	0.72	
13008	AABR07043365.1	-3.78	9	1.39	3	0.37	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
13009	Igfbp7	-3.78	186	29.85	65	7.89	
13010	Lpar1	-3.78	13	0.83	4	0.22	
13011	Uqcr10_2	-3.78	11	14.28	2	3.77	
13012	Kcnb2	-3.78	11	1.27	2	0.33	
13013	Krtap1-5	-3.78	10	4.41	2	1.17	
13014	Rn60_20_0058.5	-3.78	7	3.4	0	0.9	
13015	Coro1c	-3.8	981	66.09	185	17.4	
13016	Pcdh7	-3.81	1117	70.8	205	18.61	
13017	Lrig1	-3.81	460	32.64	93	8.57	
13018	Slc35f1	-3.81	80	4.39	18	1.15	
13019	Tagln2	-3.82	2450	463.94	434	121.43	
13020	Smtn	-3.82	559	43.1	104	11.28	
13021	Acta1	-3.82	48	8.68	9	2.27	
13022	Ntn4	-3.83	667	53.84	125	14.06	
13023	Flrt2	-3.83	461	32.05	89	8.37	
13024	Rpl30	-3.83	12	27.92	1	7.28	
13025	Arid3b	-3.85	55	1.71	18	0.44	
13026	Ccdc80	-3.85	61	3.41	12	0.88	
13027	Styx	-3.85	83	5.78	56	1.5	
13028	Lmna	-3.85	1583	117.79	276	30.56	
13029	LOC100911693	-3.87	2	9.96	0	2.58	
13030	Myh10	-3.87	18104	575.73	3284	148.91	
13031	AABR07042903.1	-3.87	3	12.57	1	3.25	
13032	AABR07039234.1	-3.9	11	2.44	2	0.62	
13033	Fam114a111	-3.9	12	2.4	2	0.62	
13034	Fas	-3.9	23	1.66	8	0.43	
13035	LOC100911305	-3.9	0	2.41	0	0.62	
13036	Nxf2	-3.9	19	1.96	3	0.5	
13037	Plscr1	-3.9	22	1.62	6	0.41	
13038	Prx	-3.9	58	2.75	11	0.7	
13039	RGD1564899	-3.9	17	0.91	3	0.23	
13040	Fzd7	-3.91	90	8.04	16	2.05	
13041	Clic4	-3.92	950	175.75	172	44.87	
13042	Brms1_1	-3.92	13	11.27	0	2.87	
13043	Wwc1	-3.92	207	7.72	42	1.97	
13044	Cd55	-3.93	160	7.81	30	1.99	
13045	Slc9a3r2	-3.93	45	4.64	7	1.18	
13046	Srf	-3.93	711	40.62	128	10.32	
13047	Itga2	-3.94	191	9.63	43	2.44	
13048	Myo1c	-3.95	2990	189.32	511	47.97	
13049	Lima1	-3.95	301	14.14	60	3.58	
13050	Tmsb4x	-3.95	3969	1833.93	675	463.86	
13051	AABR07059632.3	-3.96	4	1.32	1	0.33	
13052	RGD1310587	-3.96	25	2.1	4	0.53	
13053	Dgkh	-3.96	44	1.43	12	0.36	
13054	Gnat1	-3.98	53	5.97	9	1.5	
13055	Rpl26-ps2	-3.98	4	29.58	1	7.44	
13056	Pomp	-3.99	4	69.72	0	17.49	
13057	Tln1	-4	6823	193.61	1178	48.36	
13058	Adgra2	-4.01	1170	61.5	187	15.35	
13059	Rock2	-4.02	1551	48.12	288	11.98	
13060	Kirrel	-4.02	1274	42.51	218	10.58	
13061	RGD1561161	-4.02	830	19.65	140	4.89	
13062	Rhob	-4.02	1453	168.06	248	41.78	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
13063	Myo1f	-4.03	89	2.68	20	0.66	
13064	Myrf	-4.11	864	37.44	146	9.1	
13065	AABR07027519.1	-4.13	0	5.86	0	1.42	
13066	AC118147.1	-4.13	0	5.47	0	1.32	
13067	Casp4	-4.13	24	2.44	3	0.59	
13068	Celf2	-4.13	411	22.96	78	5.56	
13069	Chst9	-4.13	41	1.69	8	0.41	
13070	Col4a6	-4.13	44	1.52	12	0.37	
13071	Elovl6_1	-4.13	5	5.38	0	1.3	
13072	Emilin2	-4.13	10	0.46	8	0.11	
13073	Epb4.1l1	-4.13	1	0.45	0	0.11	
13074	Epha5	-4.13	46	0.36	14	0.09	
13075	Fam122a	-4.13	0	1.14	0	0.28	
13076	Fbxo15	-4.13	14	0.98	8	0.24	
13077	Larp6	-4.13	7	0.64	3	0.15	
13078	Lgals9	-4.13	15	1.92	5	0.47	
13079	Tead1	-4.13	899	47.54	177	11.51	
13080	Traf5	-4.13	130	13.37	22	3.24	
13081	Vtcn1	-4.13	7	0.33	2	0.08	
13082	AABR07015078.2	-4.13	0	3.89	0	0.94	
13083	AABR07043748.2	-4.13	23	6.06	10	1.47	
13084	Cdc42ep2	-4.13	59	10.94	10	2.65	
13085	Cntn3	-4.13	14	0.36	10	0.09	
13086	Etv4	-4.13	31	2.47	4	0.6	
13087	Fancf	-4.13	6	1.47	1	0.36	
13088	Il17d	-4.13	20	2.39	3	0.58	
13089	Klf2	-4.13	18	4.25	3	1.03	
13090	LOC679576	-4.13	6	3.89	1	0.94	
13091	LOC689959	-4.13	28	3.33	4	0.81	
13092	Mylk3	-4.13	8	0.54	2	0.13	
13093	Pde4a	-4.13	10	0.59	2	0.14	
13094	Pigf	-4.13	63	7	28	1.69	
13095	Praf2	-4.13	58	25.2	11	6.1	
13096	Prkcq	-4.13	13	0.44	3	0.11	
13097	Rn60_20_0046.8	-4.13	5	3.29	1	0.8	
13098	Sh3bgrl2	-4.13	61	4.12	48	1	
13099	Slco2a1	-4.13	7	0.37	1	0.09	
13100	Trim72	-4.13	10	0.63	2	0.15	
13101	Myof	-4.15	2067	56.99	336	13.73	
13102	Ppp1r18	-4.17	117	17.02	21	4.08	
13103	Klf6	-4.18	1174	34	274	8.13	
13104	Fam84a	-4.19	1023	68.47	169	16.36	
13105	Ptger2	-4.19	93	9.28	14	2.22	
13106	Tuft1	-4.2	155	8.94	31	2.13	
13107	Potef	-4.21	4837	2842.27	802	674.81	
13108	Ajuba	-4.22	636	44.46	106	10.54	
13109	Arhgef26	-4.23	202	7.14	32	1.69	
13110	Plcb1	-4.23	87	2.18	23	0.52	
13111	Fras1	-4.24	174	3.32	37	0.78	
13112	Colec12	-4.24	57	3.19	25	0.75	
13113	Ras2	-4.25	360	31.16	55	7.33	
13114	AABR07040690.1	-4.26	167	34.38	28	8.07	
13115	Enox1	-4.27	69	2.66	24	0.62	
13116	Rab3gap2	-4.27	859	36.5	141	8.55	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
13117	Cdr2	-4.29	215	19.84	33	4.62	
13118	Arhgap21	-4.29	1912	63.2	328	14.73	
13119	RGD1560017	-4.33	36	20.65	4	4.77	
13120	Zyx	-4.34	2910	262.12	449	60.44	
13121	Casp12	-4.36	76	6.94	16	1.59	
13122	Ier5	-4.36	209	34.61	31	7.94	
13123	Klhl31	-4.36	19	0.77	4	0.18	
13124	Mettl18	-4.36	19	3.15	3	0.72	
13125	Nsun4_2	-4.36	1	3.08	0	0.71	
13126	PVR	-4.36	315	27.75	47	6.36	
13127	AABR07063424.1	-4.37	0	53.96	0	12.33	
13128	Bgn	-4.39	1212	123.04	189	28.06	
13129	Myadm	-4.39	2107	181.85	330	41.42	
13130	Cracr2b_2	-4.4	8	5.04	1	1.14	
13131	Msr3	-4.41	654	32.75	118	7.43	
13132	Psat1	-4.42	81	6.79	14	1.54	
13133	Pkp2	-4.45	968	67.76	140	15.22	
13134	AC120246.2	-4.45	142	18.65	22	4.19	
13135	LOC100364191	-4.47	4	8.24	0	1.84	
13136	AC110709.1	-4.47	2	8.12	0	1.81	
13137	Arid5a	-4.47	81	6.02	11	1.34	
13138	ENSRNOG00000050	-4.47	103	3.65	38	0.82	
13139	Irf6	-4.47	68	4	11	0.9	
13140	Ppfia2	-4.47	25	0.94	15	0.21	
13141	Xirp1	-4.47	13	0.54	3	0.12	
13142	Map1b	-4.47	11991	229.05	1856	51.2	
13143	Rai14	-4.47	1451	66.31	226	14.82	
13144	Flnb	-4.49	3298	85.16	520	18.95	
13145	Synj2	-4.51	424	15.98	73	3.54	
13146	AABR07024972.1	-4.53	125	37.89	19	8.37	
13147	Ras111b	-4.53	412	53.64	64	11.84	
13148	Dnajb4	-4.53	696	62.78	112	13.85	
13149	Col12a1	-4.54	1847	37.97	273	8.37	
13150	Asns	-4.54	288	31.01	44	6.83	
13151	Cnn3	-4.56	3015	342.7	461	75.14	
13152	Hivep1	-4.56	358	14.09	50	3.09	
13153	Btc	-4.59	24	2.02	5	0.44	
13154	Grip1	-4.59	43	1.11	7	0.24	
13155	LOC100365810	-4.59	6	73.28	1	15.97	
13156	Mob3a	-4.59	226	18.15	38	3.96	
13157	Mb21d1	-4.59	29	3.25	4	0.71	
13158	Slc7a1	-4.59	522	17.92	85	3.9	
13159	Piezo2	-4.63	160	3.69	29	0.8	
13160	Pdha11	-4.65	25	6.6	3	1.42	
13161	Sulf1	-4.65	700	26.99	104	5.8	
13162	Palld	-4.66	463	22.44	85	4.81	
13163	Trib3	-4.66	65	7.85	10	1.68	
13164	Mylk	-4.7	392	10.2	63	2.17	
13165	Kif18a	-4.7	108	5.84	19	1.24	
13166	Tdrd7	-4.78	2693	123.76	374	25.91	
13167	Rbpms	-4.79	343	32.14	61	6.72	
13168	AABR07001233.1	-4.82	115	1.39	61	0.29	
13169	AABR07002564.1	-4.82	3	6.12	1	1.27	
13170	Adm2	-4.82	7	1.7	2	0.35	

Supplemental Table 2
Vehicle versus FSH, 24 hours

	A	B	C	D	E	F	G
13171	Ccsap	-4.82	11	1.13	3	0.23	
13172	Gas1	-4.82	14	3.03	2	0.63	
13173	Il12a	-4.82	8	1.2	2	0.25	
13174	Lypd6	-4.82	12	0.48	1	0.1	
13175	Rgs10	-4.82	10	2.07	1	0.43	
13176	Set	-4.82	8	7.67	2	1.59	
13177	Snai1	-4.82	7	0.95	2	0.2	
13178	Svip	-4.82	8	1.48	2	0.31	
13179	Tmem204	-4.82	12	2.96	2	0.61	
13180	AABR07054593.1	-4.82	16	1.88	3	0.39	
13181	Cacna1b	-4.82	12	0.18	5	0.04	
13182	Cd38	-4.82	15	1.55	2	0.32	
13183	Clec14a	-4.82	14	1.11	2	0.23	
13184	Itga2b	-4.82	15	0.53	7	0.11	
13185	Kazn	-4.82	219	5.81	56	1.21	
13186	Lrrn4	-4.82	8	0.68	1	0.14	
13187	Map3k8	-4.82	11	0.6	2	0.13	
13188	Rhoj	-4.82	33	1.95	13	0.41	
13189	Sphkap	-4.82	19	0.48	3	0.1	
13190	Myl12a	-4.82	13058	3550.48	1835	736.78	
13191	Nid1	-4.83	622	26.36	97	5.46	
13192	Sema3e	-4.83	777	21.01	127	4.35	
13193	Shroom3	-4.89	115	2.28	22	0.47	
13194	Bcar1	-4.9	2075	145.2	288	29.63	
13195	Dusp8	-4.9	60	7.25	8	1.48	
13196	Wnk3	-4.97	206	7.28	30	1.47	
13197	Grb10	-4.99	35	1.38	5	0.28	
13198	Glipr2	-5	179	37.37	28	7.48	
13199	Col14a1	-5	1077	46.41	159	9.28	
13200	Dstn	-5.02	2886	469.07	411	93.42	
13201	Amotl2	-5.04	2913	145.81	408	28.96	
13202	Mgp	-5.05	23	8.11	3	1.61	
13203	Tinagl1	-5.05	303	30.24	42	5.99	
13204	Nhs	-5.06	148	5.43	20	1.07	
13205	Rnd3	-5.09	2421	176.54	309	34.67	
13206	Hacd1	-5.11	199	17.97	27	3.52	
13207	LOC499339	-5.13	158	33.45	45	6.52	
13208	P4ha3	-5.13	397	41.43	53	8.07	
13209	Icam1	-5.16	17	1.41	2	0.27	
13210	Aig1	-5.16	63	2.63	13	0.51	
13211	Exosc3	-5.16	17	4.34	2	0.84	
13212	Fosb	-5.16	22	1	2	0.19	
13213	LOC690276	-5.16	20	2.69	3	0.52	
13214	MGC105567	-5.16	18	1.76	2	0.34	
13215	Mmp28	-5.16	31	2.37	5	0.46	
13216	Rassf5	-5.16	29	0.98	9	0.19	
13217	Slc2a6	-5.16	11	1.76	1	0.34	
13218	Trpc1	-5.16	18	0.89	5	0.17	
13219	ENSRNOG00000061	-5.16	19	1.04	4	0.2	
13220	LOC100362814	-5.16	58	0.93	18	0.18	
13221	Mid1	-5.2	255	7.62	42	1.46	
13222	Glipr1	-5.28	57	11.31	7	2.14	
13223	Prune2	-5.28	109	5.93	11	1.12	
13224	Rtkn2	-5.28	43	1.62	13	0.31	

Supplemental Table 2
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	A	B	C	D	E	F	G
13225	Spry4	-5.28	50	2.41	8	0.46	
13226	Pdlim7	-5.29	687	82.61	92	15.62	
13227	Dusp14	-5.33	28	5.13	3	0.96	
13228	Atp10a	-5.37	302	11.44	46	2.13	
13229	Ptpn13	-5.41	1323	33.83	180	6.26	
13230	Samd4a	-5.42	672	16.66	86	3.08	
13231	Crim1	-5.44	6829	322.09	857	59.16	
13232	Actn4	-5.45	9410	590.28	1176	108.37	
13233	Fam129a	-5.47	829	46.5	107	8.5	
13234	Cited2	-5.5	1843	233.95	229	42.54	
13235	AABR07015080.2	-5.51	0	53.35	0	9.69	
13236	Adamts14	-5.51	11	0.4	2	0.07	
13237	Arhgef37	-5.51	22	0.52	8	0.09	
13238	Dusp10	-5.51	140	10.32	19	1.87	
13239	Eps8l2	-5.51	9	0.62	2	0.11	
13240	Fjx1	-5.51	16	1.9	2	0.34	
13241	LOC100360120	-5.51	210	7.38	124	1.34	
13242	Msantd1	-5.51	9	0.4	2	0.07	
13243	Nrxn1	-5.51	41	2.84	18	0.52	
13244	Ppfia4	-5.51	9	0.31	2	0.06	
13245	RGD1308750	-5.51	2	0.95	0	0.17	
13246	Shroom1	-5.51	8	0.64	1	0.12	
13247	Sptbn2	-5.51	25	0.49	7	0.09	
13248	Timm8a1_1	-5.51	13	14.6	2	2.65	
13249	Afap1l1	-5.51	9	0.58	2	0.11	
13250	Cyp7b1	-5.51	19	0.7	13	0.13	
13251	Dkk2	-5.51	17	0.56	3	0.1	
13252	Mreg	-5.51	8	0.68	9	0.12	
13253	Myc	-5.51	187	17.9	24	3.25	
13254	Rps20	-5.51	0	5.58	1	1.01	
13255	Rps27l3	-5.51	0	4.4	0	0.8	
13256	Sorcs1	-5.51	32	0.51	14	0.09	
13257	Timm9	-5.51	13	4.44	2	0.81	
13258	Fos	-5.56	101	15.21	13	2.73	
13259	Lama5	-5.58	297	6.43	40	1.15	
13260	Dse	-5.6	236	10.62	26	1.9	
13261	Mcam	-5.7	1568	130.72	187	22.95	
13262	Nupr1_2	-5.7	0	141.48	0	24.82	
13263	Fads3	-5.71	658	100.39	85	17.58	
13264	Jag1	-5.73	222	9.3	25	1.62	
13265	Ldb3	-5.73	149	2.09	10	0.36	
13266	Rn60_13_0841.1	-5.73	7	5.53	1	0.96	
13267	ErbB3	-5.73	29	1.05	2	0.18	
13268	Pdlim5	-5.77	444	43.64	55	7.56	
13269	Ier3	-5.79	303	58.89	36	10.17	
13270	Pdlim1	-5.88	1218	173.79	139	29.54	
13271	Nupr1_1	-5.9	0	167.02	0	28.29	
13272	Ehd4	-5.92	1520	95	171	16.05	
13273	Ccny1	-5.96	1107	55.75	130	9.35	
13274	Ppap2a	-6	102	10.32	21	1.72	
13275	Cpe	-6.05	1080	112.33	120	18.58	
13276	Pcgf5	-6.05	233	17.5	29	2.89	
13277	Ildr2	-6.11	199	8.93	16	1.46	
13278	Mthfd2	-6.14	245	30.22	27	4.92	

Supplemental Table 2
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	A	B	C	D	E	F	G
13279	Pclo	-6.15	382	5.86	46	0.95	
13280	Ckmt1b	-6.19	14	2.67	2	0.43	
13281	Gabrq	-6.19	12	1.18	1	0.19	
13282	Igf2bp3	-6.19	17	1.05	5	0.17	
13283	LOC100910255_2	-6.19	6	1.47	2	0.24	
13284	Arid5b	-6.19	1246	54.63	172	8.82	
13285	Camkv	-6.19	18	1.24	3	0.2	
13286	RGD1560687	-6.19	3	4.06	0	0.66	
13287	Tpm4	-6.23	2979	661.2	335	106.11	
13288	Zfp36	-6.35	89	11.22	9	1.77	
13289	Sync	-6.37	134	8.55	24	1.34	
13290	Nfil3	-6.39	154	16.53	16	2.59	
13291	Adm	-6.4	97	16.71	10	2.61	
13292	Fn1	-6.41	17837	526.67	1926	82.23	
13293	Adra1b	-6.42	39	2.8	7	0.44	
13294	Dpysl3	-6.43	1530	123.64	159	19.22	
13295	Scrn1	-6.47	79	2.33	14	0.36	
13296	Fam65b	-6.54	146	8.43	18	1.29	
13297	Tmem108	-6.54	22	2.82	2	0.43	
13298	Cdc42ep3	-6.57	429	47.5	42	7.23	
13299	Tubb6	-6.6	544	73.71	57	11.17	
13300	Cebpd	-6.65	29	6.34	3	0.95	
13301	Trpc5	-6.65	88	1.87	17	0.28	
13302	Fhl1	-6.67	1739	148.47	177	22.27	
13303	Tll1	-6.72	626	25.74	68	3.83	
13304	Actg1	-6.77	43	41.31	2	6.1	
13305	AABR07027272.1	-6.78	54	8.91	5	1.31	
13306	Ppargc1b	-6.88	49	2.28	7	0.33	
13307	Pth2r	-6.88	23	1.26	5	0.18	
13308	LOC100125368	-6.88	0	1.66	0	0.24	
13309	LOC102555453	-6.88	0	5	0	0.73	
13310	Lsp1	-6.88	36	6.06	6	0.88	
13311	Map3k6	-6.88	13	0.57	1	0.08	
13312	Radil	-6.88	19	0.68	8	0.1	
13313	Arl4d	-6.88	21	3.61	2	0.52	
13314	Hlf	-6.88	16	2.81	4	0.41	
13315	Zfp580	-6.88	10	4.8	1	0.7	
13316	Sptb	-6.96	233	5.86	32	0.84	
13317	Cryab	-6.97	308	60.69	30	8.7	
13318	Bves	-7	286	20.54	20	2.94	
13319	Ntng1	-7.03	201	5.68	23	0.81	
13320	Cd44	-7.05	53	2.57	7	0.36	
13321	Cemip	-7.07	1980	64.63	194	9.14	
13322	Tnik	-7.09	151	5.31	23	0.75	
13323	Itgbl1	-7.11	59	3.38	16	0.47	
13324	LOC100911597	-7.15	527	456.37	90	63.79	
13325	Syl2_1	-7.16	137	40.61	16	5.67	
13326	Sorbs1	-7.17	1554	39.76	146	5.55	
13327	Fhl2	-7.18	551	73.51	49	10.24	
13328	Cdc42ep5	-7.23	21	9.97	2	1.38	
13329	Olr1433	-7.23	21	5.32	2	0.74	
13330	Trpc3	-7.37	377	11.67	39	1.58	
13331	Pxdc1	-7.38	598	43.36	40	5.88	
13332	Olfml2b	-7.42	1038	77.5	95	10.44	

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	A	B	C	D	E	F	G
13333	Mrvi1	-7.43	148	4.35	12	0.59	
13334	Pdlim3	-7.53	598	46.06	60	6.12	
13335	Fam101b	-7.57	25	4.03	3	0.53	
13336	Heyl	-7.57	11	0.59	2	0.08	
13337	Apba1	-7.57	31	0.74	8	0.1	
13338	Dhrs9	-7.57	13	0.67	1	0.09	
13339	Krt80	-7.57	12	0.89	2	0.12	
13340	Hnrnpa3_2	-7.57	3	2.56	0	0.34	
13341	Trib1	-7.65	119	12.64	11	1.65	
13342	Cav2	-7.71	55	5.61	6	0.73	
13343	Gatm	-7.77	256	23.36	24	3.01	
13344	Prkca	-7.81	691	23.74	82	3.04	
13345	Nacad	-7.82	280	12.36	25	1.58	
13346	Sema3a	-7.9	842	51.5	84	6.52	
13347	Ppp1r14c	-7.91	39	2.07	4	0.26	
13348	Fam150a	-7.91	82	14.92	4	1.89	
13349	Pea15	-8.06	220	73.43	43	9.11	
13350	Cyp26b1	-8.12	64	3.23	6	0.4	
13351	Myl9	-8.15	1646	366.3	137	44.93	
13352	Basp1	-8.16	629	104.21	73	12.77	
13353	Csrp1	-8.17	1098	139.08	85	17.01	
13354	Gpr75	-8.26	11	1.15	1	0.14	
13355	Pear1	-8.26	13	0.67	2	0.08	
13356	AABR07004397.1	-8.26	0	8.9	0	1.08	
13357	Cap2	-8.26	43	1.35	3	0.16	
13358	LOC100363537	-8.26	0	4.15	0	0.5	
13359	LOC100911837	-8.26	0	0.64	0	0.08	
13360	LOC100912283	-8.26	15	3.39	2	0.41	
13361	Nuak2	-8.26	13	1.04	1	0.13	
13362	Trpm1	-8.26	24	0.59	5	0.07	
13363	Vasn	-8.26	2	1.09	0	0.13	
13364	Hspb1	-8.46	209	59.24	17	7	
13365	Tspan2	-8.5	412	20.88	30	2.46	
13366	lfrd1	-8.51	1420	153.03	135	17.99	
13367	Tes	-8.56	3182	304.55	240	35.56	
13368	Diaph3	-8.63	512	26.7	51	3.09	
13369	Tnfaip8	-8.72	48	3.99	6	0.46	
13370	Creb5	-8.77	259	5.63	40	0.64	
13371	Bmp4	-8.83	648	68.09	47	7.71	
13372	Tpm1	-8.83	5256	316.97	399	35.9	
13373	Ets1	-8.91	546	23.72	44	2.66	
13374	LOC100910885_2	-8.95	6	2.68	2	0.3	
13375	Cidea	-8.95	20	5.93	3	0.66	
13376	Tlr6	-8.95	10	0.46	3	0.05	
13377	Tmem160	-8.95	27	7.91	2	0.88	
13378	Trpv2	-8.95	15	1.16	2	0.13	
13379	RGD1563962	-8.95	3	1.75	0	0.2	
13380	Cnksr3	-9.01	862	37.62	74	4.18	
13381	Sorbs2	-9.05	1965	47.24	161	5.22	
13382	Dusp4	-9.12	61	3.32	5	0.36	
13383	Alpk3	-9.14	128	3.67	11	0.4	
13384	Rnd1	-9.19	626	88.89	49	9.68	
13385	Pdgrfb	-9.22	72	2.93	6	0.32	
13386	Dtna	-9.29	52	1.35	9	0.14	

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	A	B	C	D	E	F	G
13387	Mal2	-9.32	133	13.37	10	1.43	
13388	LOC100363469	-9.39	33	102.13	2	10.88	
13389	Tgfb2	-9.48	4738	236.99	342	24.99	
13390	Sertad4	-9.52	86	7.07	6	0.74	
13391	Runx1t1	-9.56	179	4.81	19	0.5	
13392	Cyr61	-9.59	6171	766.46	441	79.93	
13393	Bcl2	-9.63	71	2.96	19	0.31	
13394	Chac1	-9.63	44	6.67	3	0.69	
13395	Glis3	-9.63	56	1.24	15	0.13	
13396	Otub2	-9.63	21	1.26	3	0.13	
13397	AABR07016577.1	-9.63	4	16.61	0	1.72	
13398	Actc1	-9.63	13	2.34	1	0.24	
13399	Lcp1	-9.63	59	3.84	7	0.4	
13400	LOC681193	-9.63	0	3.6	0	0.37	
13401	RGD1308601	-9.63	10	0.7	1	0.07	
13402	Hbegf	-9.66	799	81.94	57	8.48	
13403	Cnn2	-9.74	840	400.93	69	41.14	
13404	Ptgis	-9.94	287	38.22	25	3.84	
13405	Dusp1	-9.95	900	109.78	60	11.03	
13406	Atp13a3	-9.98	81	18.29	12	1.83	
13407	Nlrp3	-9.98	30	1.74	2	0.17	
13408	Tmem144	-9.98	44	2.51	5	0.25	
13409	Vcl	-10	9702	406.35	668	40.62	
13410	Arhgap24	-10.15	102	5.01	21	0.49	
13411	AABR07058656.1	-10.32	15	3.89	4	0.38	
13412	Vgll3	-10.52	894	159.56	65	15.16	
13413	Stc1	-10.74	1998	124.97	133	11.64	
13414	Ili1r1	-10.85	241	12.93	21	1.19	
13415	Gls2	-11.01	24	1.44	4	0.13	
13416	Hspb2	-11.01	22	7.26	1	0.66	
13417	Cdkn2b	-11.01	25	0.71	2	0.06	
13418	Mns1	-11.01	22	2.21	7	0.2	
13419	AABR07047140.1	-11.7	5	12.39	0	1.06	
13420	Tnnt2	-11.7	19	3.5	1	0.3	
13421	Car9	-11.7	20	2.05	2	0.18	
13422	Serpib1a	-11.7	17	3.39	1	0.29	
13423	Tnfsf18	-11.7	17	2.04	1	0.17	
13424	St8sia2	-11.81	134	22.73	10	1.92	
13425	Gprc5a	-11.93	61	6.19	3	0.52	
13426	Lmcd1	-11.99	614	68	33	5.67	
13427	Tnfrsf11b	-12.13	3780	308.88	217	25.47	
13428	Mcc	-12.28	522	38.39	40	3.13	
13429	Zfp365	-12.5	112	5.37	6	0.43	
13430	Otud1	-12.62	165	30.05	9	2.38	
13431	Serpib2	-12.73	43	4.69	2	0.37	
13432	Ewsr1	-12.88	4	55.23	0	4.29	
13433	Fam198b	-12.96	617	32.58	35	2.51	
13434	Cald1	-13	12781	605.2	658	46.55	
13435	Cpne5	-13.08	26	1.1	4	0.08	
13436	Glb1l2	-13.08	27	1.94	2	0.15	
13437	Sgms2	-13.08	71	7.5	6	0.57	
13438	Actn1	-13.36	11740	659.08	635	49.33	
13439	Lims2	-13.65	268	24.38	17	1.79	
13440	Cav1	-13.67	2296	218.58	114	15.99	

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	A	B	C	D	E	F	G
13441	Olah	-13.76	26	3.15	1	0.23	
13442	Tnfrsf12a	-13.89	705	172.32	34	12.41	
13443	Gpc6	-14.11	188	4.44	47	0.31	
13444	Hpd1	-14.45	21	3.27	1	0.23	
13445	Shb	-14.45	67	3.47	7	0.24	
13446	Actg2	-14.75	309	52.64	15	3.57	
13447	Tagln	-14.76	13325	2586.44	588	175.26	
13448	Spink8	-15.14	38	6.27	3	0.41	
13449	Gadd45g	-15.91	406	89.84	17	5.65	
13450	Stard13	-16.44	350	9.53	65	0.58	
13451	Hmga1	-16.52	67	36.91	3	2.23	
13452	Edn1	-16.71	376	60.95	14	3.65	
13453	Penk	-16.95	400	57.68	16	3.4	
13454	Sema3d	-17.5	203	8.95	15	0.51	
13455	Slc7a3	-17.89	27	2.13	1	0.12	
13456	Maff	-18.01	168	20.15	5	1.12	
13457	Tnc	-18.18	674	21.9	27	1.2	
13458	Ankrd1	-18.47	172	22.66	6	1.23	
13459	Trpc4	-18.58	53	2.15	6	0.12	
13460	Bdnf	-19.11	1127	35.35	40	1.85	
13461	Spry1	-19.5	90	8.5	3	0.44	
13462	Nav3	-19.96	427	8.54	18	0.43	
13463	Rgs7bp	-19.96	88	14	9	0.7	
13464	Sept4	-20.19	412	24.24	16	1.2	
13465	Adamts12	-20.65	744	17.38	30	0.84	
13466	Lrrfip1	-21.27	1289	74.31	43	3.49	
13467	Arc	-21.33	30	2.55	1	0.12	
13468	Anxa3	-21.56	215	11.97	9	0.56	
13469	Acta2	-21.64	17925	3165.71	562	146.29	
13470	LOC100359550	-22.02	32	22.91	1	1.04	
13471	F3	-22.49	566	71.52	16	3.18	
13472	Meox2	-22.71	61	3.41	6	0.15	
13473	Akap12	-22.98	861	31.58	33	1.37	
13474	Stmn4	-23.74	97	12.17	6	0.51	
13475	LOC100910163	-23.86	81	20.04	3	0.84	
13476	Ngf	-24.09	62	3.95	2	0.16	
13477	Ctgf	-24.34	16382	1507.86	463	61.95	
13478	Atf3	-24.54	140	9.16	6	0.37	
13479	Wnt16	-25.46	38	5.55	1	0.22	
13480	Myh11	-26.64	318	10.09	14	0.38	
13481	Rrad	-27.53	43	6.58	1	0.24	
13482	Gadd45b	-29.59	95	16.48	2	0.56	
13483	Serpine1	-32.21	239	19.04	5	0.59	
13484	Spats2l	-32.69	430	27.45	21	0.84	
13485	S1pr1	-40.41	412	39.83	7	0.99	
13486	Akap5	-40.6	475	43.56	8	1.07	
13487	Mybpc3	-44.04	215	11.49	4	0.26	
13488	Lmod1	-49.09	294	11.85	15	0.24	
13489	Rasgrp3	-53.33	171	8.48	10	0.16	
13490	Tgfb3	-68.54	549	47.38	5	0.69	
13491	Tpm2	-70.88	348	51.67	6	0.73	
13492	Tnnc1	-71.8	317	94.65	3	1.32	
13493	Cnn1	-158.97	236	38.37	1	0.24	
13494	AABR07003030.2	-∞	34	0.19	13	0	

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13495	AABR07013701.1	, -∞, >3.13	287	3.12	5	0	
13496	AABR07041724.2	-∞	22	4.05	10	0	
13497	AABR07044408.1	-∞	67	1.15	37	0	
13498	AABR07068650.1	-∞	87	0.17	78	0	
13499	AABR07070046.1	-∞	205	0.53	47	0	
13500	Adam33	-∞	31	1.67	0	0	
13501	Adamts19	-∞	43	1.54	4	0	
13502	Afap1l2	-∞	25	1.12	4	0	
13503	Anks1b	-∞	20	0.07	21	0	
13504	C1qtnf7	-∞	20	0.52	4	0	
13505	Ccdc37	-∞	46	1.46	9	0	
13506	Ccser1	-∞	20	0.08	12	0	
13507	Colq	-∞	34	1.27	5	0	
13508	Cyp2ac1	-∞	28	0.5	13	0	
13509	Dcdc2	-∞	185	1.28	169	0	
13510	Dmgdh	-∞	21	0.78	4	0	
13511	Epha1	-∞	28	0.54	2	0	
13512	Fcgr1a	-∞	67	0.17	116	0	
13513	Fgf14	-∞, >4.69	51	4.69	3	0	
13514	Hdac9	-∞	25	0.32	20	0	
13515	Hmga2	-∞	44	1.24	10	0	
13516	Hmha1	-∞	27	0.06	10	0	
13517	Hs3st5	-∞	38	0.33	14	0	
13518	Htr4	-∞	28	0.53	0	0	
13519	Il12rb2	-∞	40	0.31	27	0	
13520	Lekr1	-∞	26	0.1	30	0	
13521	Lgr6	-∞	50	1.98	12	0	
13522	LOC102546963	-∞, >7.93	23	7.93	0	0	
13523	LOC498231	-∞	27	0.36	17	0	
13524	Lypd1	-∞, >3.96	32	3.96	1	0	
13525	Map3k7cl	-∞	46	0.63	21	0	
13526	Mdga2	-∞	31	0.16	19	0	
13527	Myo1h	-∞	23	0.11	3	0	
13528	Myom1	-∞	35	1.38	6	0	
13529	Nexn	-∞, >12.04	245	12.04	6	0	
13530	Nkain2	-∞	24	0.34	14	0	
13531	Ptprn2	-∞	20	0.05	25	0	
13532	RGD1563323	-∞	22	0.17	26	0	
13533	RGD1565536	-∞, >4.62	33	4.62	0	0	
13534	Rgs7	-∞	40	0.1	13	0	
13535	Rims1	-∞	47	0.21	20	0	
13536	Sntg2	-∞	43	1.5	9	0	
13537	Spag16	-∞	56	0.61	22	0	
13538	Tdrd12	-∞	28	0.06	23	0	
13539	Timd2	-∞	23	0.14	15	0	
13540	Tmem232	-∞	20	0.1	69	0	
13541	Tmem255a	-∞	60	0.87	48	0	
13542	Tmprss11b	-∞	30	0.2	21	0	
13543	Trpc6	-∞, >7.62	135	7.62	1	0	