

Sorted by rating, JR-corrected minimum empirical p-value

10:34 Wednesday, September 28, 2005

Gene rating=A

Obs	Gene	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value	Cumul: A/gf, B/ef
35	CCK	22	23	18.509	11	0.450	462
36	GPR51	25	106	4.602	304	0.509	568
37	CHRNA2	20	22	5.939	16	0.511	590
38	FMO3	30	30	9.598	36	0.549	620
39	CHRN1	5	6	1.715	8	0.553	626
40	SLC6A4	9	11	2.339	15	0.563	637
41	PDYN	14	16	4.552	27	0.566	653
42	DRD3	10	13	3.950	27	0.588	666
43	DRD1	5	5	1.935	3	0.591	671
44	UGT1A4	11	15	3.216	29	0.611	686
45	FAAH	6	7	2.026	8	0.617	693
46	NPY	28	29	26.734	20	0.740	722
47	SLC6A3	6	11	1.450	42	0.762	733
48	ADRBK2	8	9	1.342	76	0.804	742
49	COMT	15	16	6.787	25	0.821	758
50	HTR2A	30	48	7.861	70	0.822	806
51	POMC	2	2	1.197	2	0.912	808
52	DRD4	0	0	0.000	1	0.937	808
53	CHRNE	3	3	1.092	0	999.000	811
54	DRD1IP	0	0	0.000	0	999.000	811
55	DRD5	5	5	2.393	0	999.000	816

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56	ADCY8	37	62	4.843	187	0.002	853
57	CALM2	5	6	2.694	7	0.005	858
58	CALM1	2	3	0.668	4	0.008	860
59	CACNA1H	12	14	1.530	26	0.011	872
60	ADCY4	9	11	2.456	12	0.013	881
61	HTR1D	10	10	3.918	4	0.013	891
62	ADCY5	9	18	1.753	65	0.014	900
63	NPY1R	11	13	3.899	8	0.015	911
64	GSTT1	3	3	1.818	9	0.017	914
65	KCNJ14	0	0	0.000	1	0.018	914
66	AANAT	1	1	0.683	1	0.019	915
67	JAK3	11	12	2.437	31	0.021	926
68	KCNA1	0	0	0.000	3	0.023	926
69	DBI	23	23	22.288	17	0.024	949
70	CXCR4	2	2	0.980	1	0.026	951
71	CDH6	16	24	2.717	109	0.026	967
72	KCNMB2	19	67	5.160	204	0.026	986
73	KCNC4	2	7	1.026	10	0.028	988
74	KCNJ1	9	15	2.862	18	0.029	997
75	HTR3B	10	14	3.557	28	0.030	1007
76	HTR1B	12	13	8.421	10	0.034	1019
77	KCNB1	4	27	1.796	69	0.036	1023
78	FOSB	1	1	0.290	2	0.037	1024
79	VAMP8	12	12	10.486	7	0.038	1036
80	KCNV2	15	16	5.986	10	0.041	1051
81	SLC1A2	35	59	3.728	162	0.044	1086
82	KCNG1	13	14	3.407	16	0.047	1099
83	CREBBP	7	14	0.935	73	0.050	1106
84	SLC8A2	2	3	0.440	12	0.051	1108
85	DAO	8	9	3.163	12	0.052	1116
86	MAPK3	0	0	0.000	1	0.053	1116
87	GRM1	36	55	4.011	256	0.055	1152
88	CAMK2A	16	30	3.292	48	0.056	1168
89	UGCGL1	16	18	2.291	45	0.056	1184

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90	NPY2R	13	17	4.343	14	0.057	1197
91	HTR7	13	14	2.536	48	0.058	1210
92	CAMK2G	14	14	2.474	19	0.060	1224
93	RXRG	8	15	3.179	31	0.060	1232
94	SLC29A1	0	3	0.364	5	0.061	1232
95	ADH7	21	21	6.802	23	0.062	1253
96	STX11	4	6	1.495	25	0.062	1257
97	KCNAB2	5	8	1.173	23	0.064	1262
98	STX6	10	11	3.722	21	0.064	1272
99	DUSP10	12	16	3.015	18	0.064	1284
100	CLTCL1	17	19	2.271	59	0.065	1301
101	CHRM1	6	6	1.814	3	0.066	1307
102	CTSB	29	36	9.489	35	0.069	1336
103	VAMP4	8	8	1.803	15	0.073	1344
104	HTR2B	9	11	3.200	15	0.077	1353
105	CAMK2B	9	10	2.023	17	0.083	1362
106	TPH2	16	21	4.172	80	0.085	1378
107	JJAZ1	5	5	0.832	26	0.085	1383
108	TRPV4	10	12	2.231	17	0.085	1393
109	ARRB1	7	10	3.185	25	0.086	1400
110	MYL4	10	10	6.244	7	0.090	1410
111	SCN10A	22	34	3.422	49	0.091	1432
112	KCNS1	3	5	1.067	7	0.093	1435
113	STIP1	7	7	2.230	3	0.097	1442
114	UGT2B4	4	5	1.490	8	0.103	1446
115	KCNA10	7	7	3.426	5	0.105	1453
116	ADCY1	17	28	1.798	63	0.106	1470
117	KMO	3	14	1.136	51	0.107	1473
118	SCN3B	12	13	2.722	12	0.107	1485
119	FKBP4	0	0	0.000	2	0.112	1485
120	KCNJ4	9	11	3.121	17	0.113	1494
121	GRIN2B	46	130	6.706	315	0.115	1540
122	OPRL1	0	0	0.000	2	0.116	1540
123	TAS2R16	14	14	11.622	8	0.118	1554

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124	RELN	50	162	5.495	541	0.122	1604
125	STX8	20	84	11.192	198	0.127	1624
126	OGG1	8	8	1.914	5	0.128	1632
127	GRID2	29	119	5.888	936	0.131	1661
128	KCNN3	17	65	5.033	129	0.131	1678
129	PRKCABP	1	2	0.434	9	0.132	1679
130	KCNA5	8	10	3.545	7	0.143	1687
131	UGT2B10	9	9	3.667	14	0.145	1696
132	KCND3	7	79	3.916	245	0.146	1703
133	KCNQ2	4	13	0.989	15	0.146	1707
134	GABRR1	23	34	7.921	70	0.146	1730
135	UGT2A1	14	23	5.202	76	0.149	1744
136	DAPP1	12	17	3.039	63	0.150	1756
137	GRM4	9	20	2.039	127	0.154	1765
138	NAT2	20	23	10.861	17	0.155	1785
139	SLC6A11	14	38	4.784	107	0.157	1799
140	PTEN	7	9	1.412	32	0.157	1806
141	ADCY9	8	28	1.909	105	0.159	1814
142	CDC37L1	13	14	5.239	31	0.162	1827
143	PNOC	13	18	6.777	23	0.164	1840
144	SCN5A	8	27	1.764	59	0.165	1848
145	PPID	2	3	0.858	9	0.168	1850
146	SGNE1	11	22	5.774	52	0.168	1861
147	PRKAR1B	0	0	0.000	2	0.168	1861
148	SCN4B	6	6	1.295	7	0.173	1867
149	NR1I3	7	8	3.519	8	0.173	1874
150	SNX5	9	11	2.819	39	0.173	1883
151	SLC12A6	17	21	3.113	68	0.174	1900
152	PTPNS1	6	15	1.829	47	0.174	1906
153	SCN9A	28	33	3.569	96	0.178	1934
154	KCNJ10	9	12	2.009	16	0.179	1943
155	JAZF1	9	66	3.215	257	0.181	1952
156	CDK5	0	0	0.000	4	0.185	1952
157	CAMK2D	29	57	4.727	313	0.189	1981

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158	KCNN4	5	8	1.997	11	0.189	1986
159	VAMP2	3	3	1.261	1	0.190	1989
160	GABRA6	19	19	7.174	18	0.193	2008
161	CYP2C19	11	11	3.899	18	0.195	2019
162	GRIN3B	0	0	0.000	3	0.197	2019
163	HTR3A	13	15	4.516	14	0.200	2032
164	KCNMB3	15	17	4.039	23	0.202	2047
165	FMO4	11	14	3.624	20	0.203	2058
166	NR3C2	26	92	4.599	327	0.204	2084
167	TFRC	10	11	1.856	31	0.205	2094
168	CNR2	18	19	6.427	47	0.205	2112
169	CAMK1	5	5	2.095	2	0.206	2117
170	KCNC1	1	6	0.795	20	0.208	2118
171	AVPR1A	18	18	5.167	8	0.210	2136
172	GRIK1	28	68	5.197	466	0.210	2164
173	AVP	1	1	0.577	3	0.210	2165
174	SLC39A8	26	38	5.873	73	0.213	2191
175	VAMP1	30	31	9.351	24	0.218	2221
176	GRK6	2	3	0.663	10	0.220	2223
177	ADH1B	4	4	1.180	4	0.224	2227
178	TAS2R38	4	4	3.026	3	0.228	2231
179	KCND1	2	2	0.494	3	0.229	2233
180	PLP1	6	6	1.649	12	0.231	2239
181	MAP2K1	11	12	2.880	57	0.237	2250
182	MOBP	38	41	8.728	96	0.238	2288
183	ADRB2	15	15	7.224	11	0.240	2303
184	GABRB1	17	66	5.693	276	0.243	2320
185	ADCYAP1	0	0	0.000	1	0.244	2320
186	KCNN2	11	29	3.017	82	0.245	2331
187	KCNG2	0	1	0.080	7	0.248	2331
188	GAD1	4	5	0.847	23	0.251	2335
189	UGT8	4	4	1.050	13	0.251	2339
190	GABRA1	10	11	2.030	36	0.252	2349
191	ALDH2	9	11	2.503	13	0.252	2358

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192	DUSP5	4	4	1.282	10	0.255	2362
193	CAMK4	15	37	4.363	245	0.260	2377
194	PPP1R1B	2	2	0.739	3	0.260	2379
195	GRIN3A	27	41	3.262	139	0.270	2406
196	PRL	6	8	3.183	8	0.273	2412
197	SCN2B	8	8	2.866	8	0.276	2420
198	BZRP	2	3	1.476	5	0.279	2422
199	MYLK2	10	11	3.021	12	0.283	2432
200	ADCY6	4	4	0.728	4	0.284	2436
201	KCNJ13	18	18	5.528	14	0.287	2454
202	GRM6	13	14	2.619	17	0.290	2467
203	GRPR	6	7	2.301	16	0.290	2473
204	MYLK	36	39	3.187	197	0.290	2509
205	SLC6A1	9	16	2.084	32	0.291	2518
206	STX12	5	5	1.170	20	0.298	2523
207	SLC18A2	9	12	2.995	33	0.302	2532
208	SCN11A	14	17	1.818	64	0.302	2546
209	GABRG2	16	26	3.333	72	0.310	2562
210	SLC1A3	24	41	5.132	89	0.311	2586
211	KCNJ15	23	24	5.430	87	0.316	2609
212	CRHR2	5	11	2.032	13	0.316	2614
213	GRIA3	13	50	3.023	175	0.319	2627
214	KCNB2	11	80	3.502	407	0.319	2638
215	CACNA1G	3	10	0.767	34	0.322	2641
216	NPY5R	4	5	1.812	5	0.326	2645
217	NTRK2	15	47	2.937	239	0.328	2660
218	GRIN1	0	0	0.000	2	0.328	2660
219	HSPCA	4	5	1.496	1	0.330	2664
220	GPR3	1	1	0.442	1	0.330	2665
221	KCNMB4	11	23	4.653	46	0.331	2676
222	GABRA4	33	37	3.565	75	0.331	2709
223	CHRM3	4	5	2.325	3	0.336	2713
224	GRIN2A	33	116	5.330	480	0.336	2746
225	TF	35	39	9.885	48	0.348	2781

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226	SLC8A1	25	98	6.435	439	0.353	2806
227	KCNV1	2	2	0.648	6	0.353	2808
228	TAS2R7	4	4	3.123	1	0.357	2812
229	CLTC	14	15	1.828	45	0.357	2826
230	OPCML	19	131	5.790	461	0.357	2845
231	RARB	13	68	4.568	170	0.358	2858
232	SLC1A1	15	46	4.302	94	0.364	2873
233	KCNJ6	19	87	6.245	307	0.365	2892
234	NFKB1	19	22	3.091	102	0.366	2911
235	FDFT1	14	23	5.028	37	0.371	2925
236	KCNJ5	6	8	1.750	13	0.371	2931
237	ADH1A	5	5	2.132	6	0.375	2936
238	FKBP5	8	10	1.463	37	0.377	2944
239	GABRA2	7	11	1.937	99	0.380	2951
240	ADRA1D	0	3	0.272	9	0.380	2951
241	CREB1	4	5	0.925	18	0.386	2955
242	KCNJ16	38	49	7.458	105	0.390	2993
243	STX5A	3	3	1.038	8	0.393	2996
244	ITGB3BP	16	18	9.760	49	0.395	3012
245	MYL3	8	8	5.342	11	0.396	3020
246	SLC3A1	13	14	3.612	38	0.406	3033
247	CYP1A1	0	0	0.000	3	0.409	3033
248	NCOA1	16	17	2.317	72	0.410	3049
249	KCNAB1	46	83	6.452	344	0.411	3095
250	ALDH1A1	18	22	5.306	52	0.412	3113
251	ADRA1A	31	51	6.565	122	0.415	3144
252	DUSP4	3	3	0.709	2	0.419	3147
253	TDO2	14	16	5.447	22	0.420	3161
254	KCNMA1	29	170	5.275	628	0.429	3190
255	KCNG4	21	25	6.221	20	0.431	3211
256	GRIN2D	0	0	0.000	10	0.433	3211
257	UGCGL2	19	22	2.384	98	0.434	3230
258	CRH	5	5	3.064	1	0.439	3235
259	ZNF622	11	11	4.380	16	0.442	3246

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260	ACP1	12	12	4.878	9	0.447	3258
261	CRHR1	13	15	3.346	38	0.449	3271
262	PRKCE	23	158	5.380	464	0.449	3294
263	TACR3	12	19	4.062	61	0.451	3306
264	DNM2	9	13	1.727	33	0.456	3315
265	MYL2	10	10	7.250	8	0.457	3325
266	ZNF133	18	24	5.364	41	0.460	3343
267	GABRG3	0	85	2.240	285	0.462	3343
268	PRKAR2B	11	17	2.194	60	0.463	3354
269	STX16	7	7	1.314	24	0.465	3361
270	UGT1A3	4	7	1.330	19	0.467	3365
271	RYR1	16	21	1.297	56	0.467	3381
272	UGT1A1	6	8	2.236	12	0.471	3387
273	UGT2B7	13	16	5.129	37	0.472	3400
274	GRIK2	30	125	6.412	552	0.474	3430
275	PRLR	13	27	2.982	134	0.475	3443
276	PAK7	29	100	5.842	257	0.475	3472
277	HTR1F	4	4	2.838	1	0.476	3476
278	MAP3K4	16	21	2.264	90	0.486	3492
279	LEP	19	19	6.094	7	0.497	3511
280	GFAP	17	17	5.060	11	0.502	3528
281	ADD3	9	11	1.404	61	0.504	3537
282	RYR2	77	216	5.993	807	0.505	3614
283	CYP2E1	20	22	8.322	41	0.505	3634
284	NTRK1	2	4	0.781	11	0.507	3636
285	JAK2	9	11	1.260	81	0.510	3645
286	HTR1E	13	18	4.291	32	0.512	3658
287	TNK1	6	6	1.889	6	0.516	3664
288	KCNS3	13	13	3.582	51	0.517	3677
289	ADCY7	5	10	1.250	11	0.518	3682
290	GABRE	7	7	1.538	18	0.519	3689
291	TRPV1	32	35	5.570	41	0.522	3721
292	PIP5K2A	16	32	5.280	151	0.524	3737
293	ITPKB	17	30	2.859	80	0.525	3754

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294	CASK	7	14	1.303	104	0.526	3761
295	VAMP5	4	4	3.349	2	0.527	3765
296	KCNJ12	7	7	3.616	14	0.529	3772
297	CACNA1I	9	25	1.731	71	0.530	3781
298	STX17	5	7	1.361	22	0.531	3786
299	MAPK4	12	29	3.111	62	0.534	3798
300	MAPK1	8	9	1.690	34	0.535	3806
301	KCNA3	6	6	2.136	3	0.536	3812
302	GABRA5	6	8	2.519	19	0.536	3818
303	MAPK7	9	9	2.883	4	0.541	3827
304	CLOCK	11	16	1.619	115	0.542	3838
305	SCN7A	14	18	2.173	56	0.542	3852
306	CDH10	20	31	4.081	189	0.542	3872
307	GABRA3	5	13	1.583	101	0.543	3877
308	VAPB	10	13	2.155	24	0.552	3887
309	SCN8A	8	16	1.070	65	0.556	3895
310	TEBP	7	7	2.821	11	0.559	3902
311	GRM3	14	27	2.501	149	0.562	3916
312	LEPR	19	46	3.704	197	0.564	3935
313	PROK2	0	0	0.000	3	0.566	3935
314	SCN4A	7	9	1.164	14	0.571	3942
315	VAPA	23	26	3.602	42	0.574	3965
316	PTK2	10	12	1.286	70	0.574	3975
317	KCNJ2	7	9	1.892	5	0.574	3982
318	KCNA4	4	4	1.206	1	0.574	3986
319	CYP2J2	12	14	4.115	27	0.579	3998
320	GRIN2C	2	5	0.776	7	0.582	4000
321	MC4R	10	10	7.580	4	0.593	4010
322	ADRA1B	0	12	0.786	33	0.593	4010
323	KCNJ11	0	0	0.000	1	0.595	4010
324	GSTM1	3	3	1.652	2	0.603	4013
325	HTR2C	10	10	1.302	95	0.604	4023
326	STX3A	4	4	0.916	35	0.605	4027
327	AOX1	30	37	4.546	110	0.606	4057

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328	MC2R	10	10	8.184	3	0.608	4067
329	SLC6A2	12	26	4.351	59	0.609	4079
330	CES1	6	6	1.889	15	0.609	4085
331	MPDZ	16	21	1.937	87	0.612	4101
332	RYR3	79	244	7.406	666	0.618	4180
333	SLC38A3	0	0	0.000	1	0.623	4180
334	ADH1C	13	13	5.472	20	0.623	4193
335	GRM2	2	2	0.661	1	0.624	4195
336	ST13	7	7	1.615	21	0.625	4202
337	SCN2A2	29	31	3.673	90	0.628	4231
338	CCKBR	20	24	7.614	16	0.634	4251
339	ADH5	22	22	6.567	19	0.634	4273
340	NAT1	21	23	9.977	14	0.641	4294
341	ADORA1	10	21	2.837	59	0.641	4304
342	GABRB3	14	56	3.919	168	0.647	4318
343	ADCY3	3	12	0.908	38	0.651	4321
344	CTSC	20	22	5.567	42	0.651	4341
345	NR4A2	7	7	2.041	6	0.655	4348
346	SYT1	22	28	4.161	131	0.657	4370
347	FMO5	13	14	3.681	66	0.659	4383
348	SNCA	22	26	8.007	161	0.659	4405
349	ATM	39	39	3.183	107	0.670	4444
350	GRM5	17	55	3.179	554	0.670	4461
351	GPR1	2	9	1.180	28	0.671	4463
352	GABRD	2	3	0.896	1	0.672	4465
353	UGT2B17	3	3	0.941	5	0.673	4468
354	ALDH1A3	11	12	2.443	43	0.677	4479
355	BAG1	4	4	1.967	3	0.695	4483
356	GHRL	13	13	13.480	2	0.695	4496
357	CHRM2	11	11	6.655	5	0.696	4507
358	FMO2	14	15	5.158	35	0.696	4521
359	UGT1A5	13	17	3.731	37	0.698	4534
360	UGT2B28	2	2	0.754	5	0.701	4536
361	GAD2	18	18	4.159	99	0.710	4554

Sorted by rating, JR-corrected minimum empirical p-value

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Gene rating=B

Obs	Gene	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value	Cumul: A/gf, B/ef
362	SERPINA6	16	16	6.798	21	0.716	4570
363	GRM7	34	251	7.802	1083	0.731	4604
364	SNAP25	4	18	1.794	79	0.738	4608
365	MAPK12	0	0	0.000	1	0.742	4608
366	GABRG1	12	13	3.172	81	0.742	4620
367	PPP5C	9	12	2.820	24	0.747	4629
368	GABRR2	11	22	4.471	37	0.765	4640
369	MBP	16	25	7.904	41	0.768	4656
370	HTR6	3	3	1.100	4	0.769	4659
371	UGT1A6	11	18	3.018	47	0.779	4670
372	GABRQ	7	7	2.438	8	0.780	4677
373	KCNN1	5	7	1.362	10	0.782	4682
374	CD14	8	8	4.852	6	0.789	4690
375	PTGS2	26	28	6.991	31	0.798	4716
376	CDH18	23	48	5.027	241	0.803	4739
377	PDE4B	21	81	4.665	578	0.808	4760
378	SCN3A	15	19	1.648	100	0.812	4775
379	GABRP	35	36	8.190	32	0.819	4810
380	KCNJ3	14	61	4.781	165	0.822	4824
381	GRIA4	22	41	4.696	264	0.823	4846
382	RXRБ	3	3	0.973	4	0.827	4849
383	DAOA	14	16	7.721	27	0.828	4863
384	ADRA2A	2	2	0.676	1	0.832	4865
385	MYL1	11	11	5.202	22	0.833	4876
386	UGT1A7	7	19	2.419	56	0.834	4883
387	KCND2	9	31	1.533	243	0.835	4892
388	NNMT	7	9	4.534	8	0.843	4899
389	CCKAR	3	5	1.578	6	0.843	4902
390	CES2	2	2	0.515	7	0.846	4904
391	KCNJ8	5	5	1.735	3	0.866	4909
392	ADH6	16	18	7.316	16	0.871	4925
393	UGT1A9	8	22	2.695	65	0.875	4933
394	DNM1	5	7	1.165	14	0.877	4938
395	NTRK3	15	53	3.762	305	0.878	4953

Sorted by rating, JR-corrected minimum empirical p-value

10:34 Wednesday, September 28, 2005

Gene rating=B

Obs	Gene	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value	Cumul: A/gf, B/ef
396	HNMT	12	14	4.316	49	0.881	4965
397	GRIA2	10	15	1.991	54	0.883	4975
398	UGT1A10	2	18	1.165	68	0.886	4977
399	UGT1A8	4	20	1.596	68	0.886	4981
400	KCNA7	11	11	3.188	7	0.890	4992
401	NR3C1	19	21	2.847	43	0.895	5011
402	NRCAM	44	77	5.423	380	0.907	5055
403	KCNC3	0	0	0.000	1	0.909	5055
404	KCNC2	14	46	3.598	162	0.914	5069
405	STX7	22	25	8.060	49	0.915	5091
406	KCNG3	13	17	2.833	26	0.925	5104
407	PIK3C2G	41	70	5.599	122	0.929	5145
408	ADD2	20	39	3.839	131	0.933	5165
409	ADCY2	48	106	5.941	409	0.934	5213
410	SLC18A1	21	23	5.223	39	0.938	5234
411	JAK1	24	24	4.613	72	0.940	5258
412	GRIA1	31	87	6.773	351	0.940	5289
413	ADH4	20	20	5.671	46	0.949	5309
414	GRM8	50	110	9.081	717	0.950	5359
415	ITGB3	14	22	2.752	54	0.958	5373
416	ADD1	13	16	2.331	69	0.964	5386
417	TACR1	11	41	4.303	144	0.974	5397
418	HTR4	17	35	3.772	142	0.974	5414
419	CHRM5	11	11	2.803	17	0.985	5425
420	GNG2	17	30	9.675	107	0.985	5442
421	SCN1A	14	16	1.938	133	0.996	5456
422	CSEN	2	3	0.483	25	0.998	5458
423	ADRA2B	0	0	0.000	0	999.000	5458
424	ADRA2C	2	2	0.786	0	999.000	5460
425	ADRB1	3	3	1.591	0	999.000	5463
426	AGRP	1	1	0.851	0	999.000	5464
427	ASMT	2	7	1.131	.	999.000	5466
428	ASMTL	4	7	1.415	.	999.000	5470
429	AVPR1B	0	0	0.000	0	999.000	5470

Sorted by rating, JR-corrected minimum empirical p-value

10:34 Wednesday, September 28, 2005

Gene rating=B

Obs	Gene	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value	Cumul: A/gf, B/ef
430	CALM3	0	0	0.000	0	999.000	5470
431	CHRM4	2	2	1.189	0	999.000	5472
432	CYP2D6	8	8	3.705	0	999.000	5480
433	GNB2	0	0	0.000	0	999.000	5480
434	JUNB	0	0	0.000	0	999.000	5480
435	KCNA2	0	0	0.000	0	999.000	5480
436	KCNA6	7	7	2.171	0	999.000	5487
437	KCNAB3	0	0	0.000	0	999.000	5487
438	KCNS2	2	2	0.711	0	999.000	5489
439	KLF16	0	0	0.000	0	999.000	5489
440	MYL5	0	0	0.000	0	999.000	5489
441	SCN1B	0	0	0.000	0	999.000	5489
442	SLC39A7	2	2	0.808	0	999.000	5491
443	STUB1	0	0	0.000	0	999.000	5491
444	STX10	0	0	0.000	0	999.000	5491
445	STX1A	0	0	0.000	0	999.000	5491
446	STX4A	5	5	2.386	0	999.000	5496
447	SYP	1	1	0.325	0	999.000	5497
448	UGT2B15	1	1	0.324	0	999.000	5498

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
1	AANAT	B	1	1	0.683	1	0.019
2	ACPI	B	12	12	4.878	9	0.447
3	ADCY1	B	17	28	1.798	63	0.106
4	ADCY2	B	48	106	5.941	409	0.934
5	ADCY3	B	3	12	0.908	38	0.651
6	ADCY4	B	9	11	2.456	12	0.013
7	ADCY5	B	9	18	1.753	65	0.014
8	ADCY6	B	4	4	0.728	4	0.284
9	ADCY7	B	5	10	1.250	11	0.518
10	ADCY8	B	37	62	4.843	187	0.002
11	ADCY9	B	8	28	1.909	105	0.159
12	ADCYAP1	B	0	0	0.000	1	0.244
13	ADD1	B	13	16	2.331	69	0.964
14	ADD2	B	20	39	3.839	131	0.933
15	ADD3	B	9	11	1.404	61	0.504
16	ADH1A	B	5	5	2.132	6	0.375
17	ADH1B	B	4	4	1.180	4	0.224
18	ADH1C	B	13	13	5.472	20	0.623
19	ADH4	B	20	20	5.671	46	0.949
20	ADH5	B	22	22	6.567	19	0.634
21	ADH6	B	16	18	7.316	16	0.871
22	ADH7	B	21	21	6.802	23	0.062
23	ADORA1	B	10	21	2.837	59	0.641
24	ADRA1A	B	31	51	6.565	122	0.415
25	ADRA1B	B	0	12	0.786	33	0.593
26	ADRA1D	B	0	3	0.272	9	0.380
27	ADRA2A	B	2	2	0.676	1	0.832
28	ADRA2B	B	0	0	0.000	0	999.000
29	ADRA2C	B	2	2	0.786	0	999.000
30	ADRB1	B	3	3	1.591	0	999.000
31	ADRB2	B	15	15	7.224	11	0.240
32	ADRBK2	A	8	9	1.342	76	0.804
33	AGRP	B	1	1	0.851	0	999.000
34	ALDH1A1	B	18	22	5.306	52	0.412
35	ALDH1A3	B	11	12	2.443	43	0.677
36	ALDH2	B	9	11	2.503	13	0.252

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
37	ANKK1	A	22	22	6.898	14	0.391
38	AOX1	B	30	37	4.546	110	0.606
39	ARRB1	B	7	10	3.185	25	0.086
40	ARRB2	A	5	5	1.807	5	0.386
41	ASMT	B	2	7	1.131	.	999.000
42	ASMTL	B	4	7	1.415	.	999.000
43	ATM	B	39	39	3.183	107	0.670
44	AVP	B	1	1	0.577	3	0.210
45	AVPR1A	B	18	18	5.167	8	0.210
46	AVPR1B	B	0	0	0.000	0	999.000
47	BAG1	B	4	4	1.967	3	0.695
48	BDNF	A	8	8	1.119	27	0.072
49	BZRP	B	2	3	1.476	5	0.279
50	CACNA1G	B	3	10	0.767	34	0.322
51	CACNA1H	B	12	14	1.530	26	0.011
52	CACNA1I	B	9	25	1.731	71	0.530
53	CALM1	B	2	3	0.668	4	0.008
54	CALM2	B	5	6	2.694	7	0.005
55	CALM3	B	0	0	0.000	0	999.000
56	CAMK1	B	5	5	2.095	2	0.206
57	CAMK2A	B	16	30	3.292	48	0.056
58	CAMK2B	B	9	10	2.023	17	0.083
59	CAMK2D	B	29	57	4.727	313	0.189
60	CAMK2G	B	14	14	2.474	19	0.060
61	CAMK4	B	15	37	4.363	245	0.260
62	CASK	B	7	14	1.303	104	0.526
63	CCK	A	22	23	18.509	11	0.450
64	CCKAR	B	3	5	1.578	6	0.843
65	CCKBR	B	20	24	7.614	16	0.634
66	CD14	B	8	8	4.852	6	0.789
67	CDC37L1	B	13	14	5.239	31	0.162
68	CDH10	B	20	31	4.081	189	0.542
69	CDH18	B	23	48	5.027	241	0.803
70	CDH6	B	16	24	2.717	109	0.026
71	CDK5	B	0	0	0.000	4	0.185
72	CES1	B	6	6	1.889	15	0.609

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
73	CES2	B	2	2	0.515	7	0.846
74	CHRM1	B	6	6	1.814	3	0.066
75	CHRM2	B	11	11	6.655	5	0.696
76	CHRM3	B	4	5	2.325	3	0.336
77	CHRM4	B	2	2	1.189	0	999.000
78	CHRM5	B	11	11	2.803	17	0.985
79	CHRNA1	A	5	9	2.384	10	0.078
80	CHRNA10	A	3	3	1.255	1	0.140
81	CHRNA2	A	20	22	5.939	16	0.511
82	CHRNA3	A	14	14	3.564	16	0.031
83	CHRNA4	A	0	3	0.342	3	0.004
84	CHRNA5	A	10	10	2.860	23	0.196
85	CHRNA6	A	5	7	1.958	12	0.002
86	CHRNA7	A	9	20	2.753	61	0.253
87	CHRNA9	A	12	17	4.824	12	0.271
88	CHRNA1	A	5	6	1.715	8	0.553
89	CHRNA2	A	0	0	0.000	1	0.235
90	CHRNA3	A	7	7	2.227	5	0.062
91	CHRNA4	A	7	7	2.154	4	0.045
92	CHRNA5	A	3	3	1.194	3	0.134
93	CHRNA6	A	3	3	1.092	0	999.000
94	CHRNA7	A	6	7	2.867	5	0.002
95	CLOCK	B	11	16	1.619	115	0.542
96	CLTC	B	14	15	1.828	45	0.357
97	CLTCL1	B	17	19	2.271	59	0.065
98	CNR1	A	13	13	3.486	12	0.113
99	CNR2	B	18	19	6.427	47	0.205
100	COMT	A	15	16	6.787	25	0.821
101	CREB1	B	4	5	0.925	18	0.386
102	CREBBP	B	7	14	0.935	73	0.050
103	CRH	B	5	5	3.064	1	0.439
104	CRHR1	B	13	15	3.346	38	0.449
105	CRHR2	B	5	11	2.032	13	0.316
106	CSEN	B	2	3	0.483	25	0.998
107	CTSB	B	29	36	9.489	35	0.069
108	CTSC	B	20	22	5.567	42	0.651

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
109	CXCR4	B	2	2	0.980	1	0.026
110	CYP1A1	B	0	0	0.000	3	0.409
111	CYP2A6	A	6	6	2.532	13	0.441
112	CYP2B6	A	16	18	4.130	26	0.124
113	CYP2C19	B	11	11	3.899	18	0.195
114	CYP2D6	B	8	8	3.705	0	999.000
115	CYP2E1	B	20	22	8.322	41	0.505
116	CYP2J2	B	12	14	4.115	27	0.579
117	DAO	B	8	9	3.163	12	0.052
118	DAOA	B	14	16	7.721	27	0.828
119	DAPP1	B	12	17	3.039	63	0.150
120	DBH	A	15	21	4.580	30	0.026
121	DBI	B	23	23	22.288	17	0.024
122	DDC	A	32	41	9.560	72	0.007
123	DNM1	B	5	7	1.165	14	0.877
124	DNM2	B	9	13	1.727	33	0.456
125	DRD1	A	5	5	1.935	3	0.591
126	DRD1IP	A	0	0	0.000	0	999.000
127	DRD2	A	23	26	5.774	56	0.002
128	DRD3	A	10	13	3.950	27	0.588
129	DRD4	A	0	0	0.000	1	0.937
130	DRD5	A	5	5	2.393	0	999.000
131	DUSP10	B	12	16	3.015	18	0.064
132	DUSP4	B	3	3	0.709	2	0.419
133	DUSP5	B	4	4	1.282	10	0.255
134	FAAH	A	6	7	2.026	8	0.617
135	FDFT1	B	14	23	5.028	37	0.371
136	FKBP4	B	0	0	0.000	2	0.112
137	FKBP5	B	8	10	1.463	37	0.377
138	FMO1	A	15	22	4.993	51	0.168
139	FMO2	B	14	15	5.158	35	0.696
140	FMO3	A	30	30	9.598	36	0.549
141	FMO4	B	11	14	3.624	20	0.203
142	FMO5	B	13	14	3.681	66	0.659
143	FOSB	B	1	1	0.290	2	0.037
144	GABRA1	B	10	11	2.030	36	0.252

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
145	GABRA2	B	7	11	1.937	99	0.380
146	GABRA3	B	5	13	1.583	101	0.543
147	GABRA4	B	33	37	3.565	75	0.331
148	GABRA5	B	6	8	2.519	19	0.536
149	GABRA6	B	19	19	7.174	18	0.193
150	GABRB1	B	17	66	5.693	276	0.243
151	GABRB2	A	17	34	4.935	169	0.338
152	GABRB3	B	14	56	3.919	168	0.647
153	GABRD	B	2	3	0.896	1	0.672
154	GABRE	B	7	7	1.538	18	0.519
155	GABRG1	B	12	13	3.172	81	0.742
156	GABRG2	B	16	26	3.333	72	0.310
157	GABRG3	B	0	85	2.240	285	0.462
158	GABRP	B	35	36	8.190	32	0.819
159	GABRQ	B	7	7	2.438	8	0.780
160	GABRR1	B	23	34	7.921	70	0.146
161	GABRR2	B	11	22	4.471	37	0.765
162	GAD1	B	4	5	0.847	23	0.251
163	GAD2	B	18	18	4.159	99	0.710
164	GFAP	B	17	17	5.060	11	0.502
165	GHRL	B	13	13	13.480	2	0.695
166	GNB2	B	0	0	0.000	0	999.000
167	GNG2	B	17	30	9.675	107	0.985
168	GPR1	B	2	9	1.180	28	0.671
169	GPR3	B	1	1	0.442	1	0.330
170	GPR51	A	25	106	4.602	304	0.509
171	GRIA1	B	31	87	6.773	351	0.940
172	GRIA2	B	10	15	1.991	54	0.883
173	GRIA3	B	13	50	3.023	175	0.319
174	GRIA4	B	22	41	4.696	264	0.823
175	GRID2	B	29	119	5.888	936	0.131
176	GRIK1	B	28	68	5.197	466	0.210
177	GRIK2	B	30	125	6.412	552	0.474
178	GRIN1	B	0	0	0.000	2	0.328
179	GRIN2A	B	33	116	5.330	480	0.336
180	GRIN2B	B	46	130	6.706	315	0.115

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
181	GRIN2C	B	2	5	0.776	7	0.582
182	GRIN2D	B	0	0	0.000	10	0.433
183	GRIN3A	B	27	41	3.262	139	0.270
184	GRIN3B	B	0	0	0.000	3	0.197
185	GRK6	B	2	3	0.663	10	0.220
186	GRM1	B	36	55	4.011	256	0.055
187	GRM2	B	2	2	0.661	1	0.624
188	GRM3	B	14	27	2.501	149	0.562
189	GRM4	B	9	20	2.039	127	0.154
190	GRM5	B	17	55	3.179	554	0.670
191	GRM6	B	13	14	2.619	17	0.290
192	GRM7	B	34	251	7.802	1083	0.731
193	GRM8	B	50	110	9.081	717	0.950
194	GRPR	B	6	7	2.301	16	0.290
195	GSTM1	B	3	3	1.652	2	0.603
196	GSTT1	B	3	3	1.818	9	0.017
197	HNMT	B	12	14	4.316	49	0.881
198	HSPCA	B	4	5	1.496	1	0.330
199	HTR1A	A	5	5	3.227	2	0.121
200	HTR1B	B	12	13	8.421	10	0.034
201	HTR1D	B	10	10	3.918	4	0.013
202	HTR1E	B	13	18	4.291	32	0.512
203	HTR1F	B	4	4	2.838	1	0.476
204	HTR2A	A	30	48	7.861	70	0.822
205	HTR2B	B	9	11	3.200	15	0.077
206	HTR2C	B	10	10	1.302	95	0.604
207	HTR3A	B	13	15	4.516	14	0.200
208	HTR3B	B	10	14	3.557	28	0.030
209	HTR4	B	17	35	3.772	142	0.974
210	HTR5A	A	14	15	8.154	59	0.132
211	HTR6	B	3	3	1.100	4	0.769
212	HTR7	B	13	14	2.536	48	0.058
213	ITGB3	B	14	22	2.752	54	0.958
214	ITGB3BP	B	16	18	9.760	49	0.395
215	ITPKB	B	17	30	2.859	80	0.525
216	JAK1	B	24	24	4.613	72	0.940

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
217	JAK2	B	9	11	1.260	81	0.510
218	JAK3	B	11	12	2.437	31	0.021
219	JAZF1	B	9	66	3.215	257	0.181
220	JJAZ1	B	5	5	0.832	26	0.085
221	JUNB	B	0	0	0.000	0	999.000
222	KCNA1	B	0	0	0.000	3	0.023
223	KCNA10	B	7	7	3.426	5	0.105
224	KCNA2	B	0	0	0.000	0	999.000
225	KCNA3	B	6	6	2.136	3	0.536
226	KCNA4	B	4	4	1.206	1	0.574
227	KCNA5	B	8	10	3.545	7	0.143
228	KCNA6	B	7	7	2.171	0	999.000
229	KCNA7	B	11	11	3.188	7	0.890
230	KCNAB1	B	46	83	6.452	344	0.411
231	KCNAB2	B	5	8	1.173	23	0.064
232	KCNAB3	B	0	0	0.000	0	999.000
233	KCNB1	B	4	27	1.796	69	0.036
234	KCNB2	B	11	80	3.502	407	0.319
235	KCNC1	B	1	6	0.795	20	0.208
236	KCNC2	B	14	46	3.598	162	0.914
237	KCNC3	B	0	0	0.000	1	0.909
238	KCNC4	B	2	7	1.026	10	0.028
239	KCND1	B	2	2	0.494	3	0.229
240	KCND2	B	9	31	1.533	243	0.835
241	KCND3	B	7	79	3.916	245	0.146
242	KCNG1	B	13	14	3.407	16	0.047
243	KCNG2	B	0	1	0.080	7	0.248
244	KCNG3	B	13	17	2.833	26	0.925
245	KCNG4	B	21	25	6.221	20	0.431
246	KCNJ1	B	9	15	2.862	18	0.029
247	KCNJ10	B	9	12	2.009	16	0.179
248	KCNJ11	B	0	0	0.000	1	0.595
249	KCNJ12	B	7	7	3.616	14	0.529
250	KCNJ13	B	18	18	5.528	14	0.287
251	KCNJ14	B	0	0	0.000	1	0.018
252	KCNJ15	B	23	24	5.430	87	0.316

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
253	KCNJ16	B	38	49	7.458	105	0.390
254	KCNJ2	B	7	9	1.892	5	0.574
255	KCNJ3	B	14	61	4.781	165	0.822
256	KCNJ4	B	9	11	3.121	17	0.113
257	KCNJ5	B	6	8	1.750	13	0.371
258	KCNJ6	B	19	87	6.245	307	0.365
259	KCNJ8	B	5	5	1.735	3	0.866
260	KCNMA1	B	29	170	5.275	628	0.429
261	KCNMB2	B	19	67	5.160	204	0.026
262	KCNMB3	B	15	17	4.039	23	0.202
263	KCNMB4	B	11	23	4.653	46	0.331
264	KCNN1	B	5	7	1.362	10	0.782
265	KCNN2	B	11	29	3.017	82	0.245
266	KCNN3	B	17	65	5.033	129	0.131
267	KCNN4	B	5	8	1.997	11	0.189
268	KCNQ2	B	4	13	0.989	15	0.146
269	KCNS1	B	3	5	1.067	7	0.093
270	KCNS2	B	2	2	0.711	0	999.000
271	KCNS3	B	13	13	3.582	51	0.517
272	KCNV1	B	2	2	0.648	6	0.353
273	KCNV2	B	15	16	5.986	10	0.041
274	KLF16	B	0	0	0.000	0	999.000
275	KMO	B	3	14	1.136	51	0.107
276	LEP	B	19	19	6.094	7	0.497
277	LEPR	B	19	46	3.704	197	0.564
278	MAOA	A	7	8	1.215	29	0.410
279	MAOB	A	11	13	2.525	32	0.015
280	MAP2K1	B	11	12	2.880	57	0.237
281	MAP3K4	B	16	21	2.264	90	0.486
282	MAPK1	B	8	9	1.690	34	0.535
283	MAPK12	B	0	0	0.000	1	0.742
284	MAPK3	B	0	0	0.000	1	0.053
285	MAPK4	B	12	29	3.111	62	0.534
286	MAPK7	B	9	9	2.883	4	0.541
287	MBP	B	16	25	7.904	41	0.768
288	MC2R	B	10	10	8.184	3	0.608

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
289	MC4R	B	10	10	7.580	4	0.593
290	MOBP	B	38	41	8.728	96	0.238
291	MPDZ	B	16	21	1.937	87	0.612
292	MYL1	B	11	11	5.202	22	0.833
293	MYL2	B	10	10	7.250	8	0.457
294	MYL3	B	8	8	5.342	11	0.396
295	MYL4	B	10	10	6.244	7	0.090
296	MYL5	B	0	0	0.000	0	999.000
297	MYLK	B	36	39	3.187	197	0.290
298	MYLK2	B	10	11	3.021	12	0.283
299	NAT1	B	21	23	9.977	14	0.641
300	NAT2	B	20	23	10.861	17	0.155
301	NCOA1	B	16	17	2.317	72	0.410
302	NFKB1	B	19	22	3.091	102	0.366
303	NNMT	B	7	9	4.534	8	0.843
304	NPY	A	28	29	26.734	20	0.740
305	NPY1R	B	11	13	3.899	8	0.015
306	NPY2R	B	13	17	4.343	14	0.057
307	NPY5R	B	4	5	1.812	5	0.326
308	NR1I3	B	7	8	3.519	8	0.173
309	NR3C1	B	19	21	2.847	43	0.895
310	NR3C2	B	26	92	4.599	327	0.204
311	NR4A2	B	7	7	2.041	6	0.655
312	NRCAM	B	44	77	5.423	380	0.907
313	NTRK1	B	2	4	0.781	11	0.507
314	NTRK2	B	15	47	2.937	239	0.328
315	NTRK3	B	15	53	3.762	305	0.878
316	OGG1	B	8	8	1.914	5	0.128
317	OPCML	B	19	131	5.790	461	0.357
318	OPRD1	A	1	7	0.749	26	0.336
319	OPRK1	A	16	20	6.826	27	0.118
320	OPRL1	B	0	0	0.000	2	0.116
321	OPRM1	A	14	19	4.186	59	0.095
322	PAK7	B	29	100	5.842	257	0.475
323	PDE4B	B	21	81	4.665	578	0.808
324	PDYN	A	14	16	4.552	27	0.566

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
325	PENK	A	6	6	3.519	2	0.410
326	PIK3C2G	B	41	70	5.599	122	0.929
327	PIP5K2A	B	16	32	5.280	151	0.524
328	PLP1	B	6	6	1.649	12	0.231
329	PNOC	B	13	18	6.777	23	0.164
330	POMC	A	2	2	1.197	2	0.912
331	PPID	B	2	3	0.858	9	0.168
332	PPP1R1B	B	2	2	0.739	3	0.260
333	PPP5C	B	9	12	2.820	24	0.747
334	PRKAR1B	B	0	0	0.000	2	0.168
335	PRKAR2B	B	11	17	2.194	60	0.463
336	PRKCABP	B	1	2	0.434	9	0.132
337	PRKCE	B	23	158	5.380	464	0.449
338	PRL	B	6	8	3.183	8	0.273
339	PRLR	B	13	27	2.982	134	0.475
340	PROK2	B	0	0	0.000	3	0.566
341	PTEN	B	7	9	1.412	32	0.157
342	PTGS2	B	26	28	6.991	31	0.798
343	PTK2	B	10	12	1.286	70	0.574
344	PTPNS1	B	6	15	1.829	47	0.174
345	RARB	B	13	68	4.568	170	0.358
346	RELN	B	50	162	5.495	541	0.122
347	RXRБ	B	3	3	0.973	4	0.827
348	RXRG	B	8	15	3.179	31	0.060
349	RYR1	B	16	21	1.297	56	0.467
350	RYR2	B	77	216	5.993	807	0.505
351	RYR3	B	79	244	7.406	666	0.618
352	SCN10A	B	22	34	3.422	49	0.091
353	SCN11A	B	14	17	1.818	64	0.302
354	SCN1A	B	14	16	1.938	133	0.996
355	SCN1B	B	0	0	0.000	0	999.000
356	SCN2A2	B	29	31	3.673	90	0.628
357	SCN2B	B	8	8	2.866	8	0.276
358	SCN3A	B	15	19	1.648	100	0.812
359	SCN3B	B	12	13	2.722	12	0.107
360	SCN4A	B	7	9	1.164	14	0.571

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
361	SCN4B	B	6	6	1.295	7	0.173
362	SCN5A	B	8	27	1.764	59	0.165
363	SCN7A	B	14	18	2.173	56	0.542
364	SCN8A	B	8	16	1.070	65	0.556
365	SCN9A	B	28	33	3.569	96	0.178
366	SERPINA6	B	16	16	6.798	21	0.716
367	SGNE1	B	11	22	5.774	52	0.168
368	SLC12A6	B	17	21	3.113	68	0.174
369	SLC18A1	B	21	23	5.223	39	0.938
370	SLC18A2	B	9	12	2.995	33	0.302
371	SLC1A1	B	15	46	4.302	94	0.364
372	SLC1A2	B	35	59	3.728	162	0.044
373	SLC1A3	B	24	41	5.132	89	0.311
374	SLC29A1	B	0	3	0.364	5	0.061
375	SLC38A3	B	0	0	0.000	1	0.623
376	SLC39A7	B	2	2	0.808	0	999.000
377	SLC39A8	B	26	38	5.873	73	0.213
378	SLC3A1	B	13	14	3.612	38	0.406
379	SLC6A1	B	9	16	2.084	32	0.291
380	SLC6A11	B	14	38	4.784	107	0.157
381	SLC6A2	B	12	26	4.351	59	0.609
382	SLC6A3	A	6	11	1.450	42	0.762
383	SLC6A4	A	9	11	2.339	15	0.563
384	SLC8A1	B	25	98	6.435	439	0.353
385	SLC8A2	B	2	3	0.440	12	0.051
386	SNAP25	B	4	18	1.794	79	0.738
387	SNCA	B	22	26	8.007	161	0.659
388	SNX5	B	9	11	2.819	39	0.173
389	ST13	B	7	7	1.615	21	0.625
390	STIP1	B	7	7	2.230	3	0.097
391	STUB1	B	0	0	0.000	0	999.000
392	STX10	B	0	0	0.000	0	999.000
393	STX11	B	4	6	1.495	25	0.062
394	STX12	B	5	5	1.170	20	0.298
395	STX16	B	7	7	1.314	24	0.465
396	STX17	B	5	7	1.361	22	0.531

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
397	STX1A	B	0	0	0.000	0	999.000
398	STX3A	B	4	4	0.916	35	0.605
399	STX4A	B	5	5	2.386	0	999.000
400	STX5A	B	3	3	1.038	8	0.393
401	STX6	B	10	11	3.722	21	0.064
402	STX7	B	22	25	8.060	49	0.915
403	STX8	B	20	84	11.192	198	0.127
404	SYP	B	1	1	0.325	0	999.000
405	SYT1	B	22	28	4.161	131	0.657
406	TACR1	B	11	41	4.303	144	0.974
407	TACR3	B	12	19	4.062	61	0.451
408	TAS2R16	B	14	14	11.622	8	0.118
409	TAS2R38	B	4	4	3.026	3	0.228
410	TAS2R7	B	4	4	3.123	1	0.357
411	TDO2	B	14	16	5.447	22	0.420
412	TEBP	B	7	7	2.821	11	0.559
413	TF	B	35	39	9.885	48	0.348
414	TFRC	B	10	11	1.856	31	0.205
415	TH	A	8	8	3.069	2	0.081
416	TNK1	B	6	6	1.889	6	0.516
417	TPH1	A	15	15	6.475	15	0.100
418	TPH2	B	16	21	4.172	80	0.085
419	TRPV1	B	32	35	5.570	41	0.522
420	TRPV4	B	10	12	2.231	17	0.085
421	UGCGL1	B	16	18	2.291	45	0.056
422	UGCGL2	B	19	22	2.384	98	0.434
423	UGT1A1	B	6	8	2.236	12	0.471
424	UGT1A10	B	2	18	1.165	68	0.886
425	UGT1A3	B	4	7	1.330	19	0.467
426	UGT1A4	A	11	15	3.216	29	0.611
427	UGT1A5	B	13	17	3.731	37	0.698
428	UGT1A6	B	11	18	3.018	47	0.779
429	UGT1A7	B	7	19	2.419	56	0.834
430	UGT1A8	B	4	20	1.596	68	0.886
431	UGT1A9	B	8	22	2.695	65	0.875
432	UGT2A1	B	14	23	5.202	76	0.149

Obs	Gene	Gene rating	EF Rule (Col AE)	GF Rule (Col AF)	EF+sqrt_gf_d (Col AI)	ALL SNPs w/ep	Corrected min emp p-value
433	UGT2B10	B	9	9	3.667	14	0.145
434	UGT2B15	B	1	1	0.324	0	999.000
435	UGT2B17	B	3	3	0.941	5	0.673
436	UGT2B28	B	2	2	0.754	5	0.701
437	UGT2B4	B	4	5	1.490	8	0.103
438	UGT2B7	B	13	16	5.129	37	0.472
439	UGT8	B	4	4	1.050	13	0.251
440	VAMP1	B	30	31	9.351	24	0.218
441	VAMP2	B	3	3	1.261	1	0.190
442	VAMP4	B	8	8	1.803	15	0.073
443	VAMP5	B	4	4	3.349	2	0.527
444	VAMP8	B	12	12	10.486	7	0.038
445	VAPA	B	23	26	3.602	42	0.574
446	VAPB	B	10	13	2.155	24	0.552
447	ZNF133	B	18	24	5.364	41	0.460
448	ZNF622	B	11	11	4.380	16	0.442