

**External dataset**

<b>Num.</b>	<b>ID</b>	<b>Substitute site</b>	<b>Exp.</b>	<b>Pred.</b>
1	2AAB_HUMAN	P65S	Disease	Neutral
2	2AAB_HUMAN	S365P	Disease	Neutral
3	2AAB_HUMAN	V498E	Disease	Disease
4	2AAB_HUMAN	V448A	Disease	Neutral
5	2AAB_HUMAN	G90D	Disease	Disease
6	2AAB_HUMAN	D504G	Disease	Neutral
7	2AAB_HUMAN	V545A	Disease	Neutral
8	2AAB_HUMAN	L101P	Disease	Disease
9	2AAB_HUMAN	K343E	Disease	Neutral
10	2AAB_HUMAN	L499I	Disease	Neutral
11	2AAB_HUMAN	V500G	Disease	Disease
12	2AAB_HUMAN	G15A	Disease	Neutral
13	5NT3_HUMAN	N229S	Disease	Neutral
14	5NT3_HUMAN	D137V	Disease	Neutral
15	5NT3_HUMAN	L181P	Disease	Neutral
16	5NT3_HUMAN	G280R	Disease	Neutral
17	ABCA5_HUMAN	M753V	Neutral	Neutral
18	ABCA5_HUMAN	M960V	Neutral	Neutral
19	ABCA5_HUMAN	Q93K	Neutral	Neutral
20	ABCA5_HUMAN	A832S	Neutral	Neutral
21	ABCA5_HUMAN	Q484R	Neutral	Neutral
22	ABCA6_HUMAN	N610Y	Neutral	Neutral
23	ABCA6_HUMAN	N1322S	Neutral	Neutral
24	ABCA6_HUMAN	M698I	Neutral	Neutral
25	ABCA6_HUMAN	V282I	Neutral	Neutral
26	ABCA6_HUMAN	M875I	Neutral	Neutral
27	ABCA7_HUMAN	Q1686R	Neutral	Neutral
28	ABCA7_HUMAN	R1349Q	Neutral	Neutral
29	ABCA7_HUMAN	R463H	Neutral	Neutral
30	ABCA7_HUMAN	H395R	Neutral	Neutral
31	ABCA7_HUMAN	E188G	Neutral	Neutral
32	ABCA7_HUMAN	A2045S	Neutral	Neutral
33	ABCA7_HUMAN	T319A	Neutral	Neutral
34	ABCA8_HUMAN	Y489F	Neutral	Neutral
35	ABCA8_HUMAN	T256A	Neutral	Neutral
36	ABCA8_HUMAN	C680G	Neutral	Neutral
37	ABCA8_HUMAN	G331S	Neutral	Neutral
38	ABCA9_HUMAN	N785S	Neutral	Neutral
39	ABCA9_HUMAN	G1356S	Neutral	Neutral
40	ABCA9_HUMAN	R353H	Neutral	Neutral
41	ABCA9_HUMAN	K1306T	Neutral	Neutral
42	ABCF3_HUMAN	R510H	Neutral	Neutral
43	ABCF3_HUMAN	P503L	Neutral	Neutral

44	ABEC2_HUMAN	I136T	Neutral	Neutral
45	ABL2_HUMAN	T1101A	Neutral	Neutral
46	ABL2_HUMAN	K930R	Neutral	Neutral
47	ABL2_HUMAN	V946M	Neutral	Neutral
48	ABL2_HUMAN	S1085N	Neutral	Neutral
49	ABL2_HUMAN	P996R	Neutral	Neutral
50	ABP1_HUMAN	T16M	Neutral	Neutral
51	ABP1_HUMAN	S332F	Neutral	Neutral
52	ABP1_HUMAN	M479I	Neutral	Neutral
53	ABP1_HUMAN	N659H	Neutral	Neutral
54	ACHA2_HUMAN	I279N	Disease	Neutral
55	ACL7A_HUMAN	V340M	Neutral	Neutral
56	ACOD_HUMAN	M224L	Neutral	Neutral
57	ACRO_HUMAN	L120V	Neutral	Neutral
58	ACRO_HUMAN	F166L	Neutral	Neutral
59	ACSL3_HUMAN	F551S	Neutral	Neutral
60	ACTY_HUMAN	V93A	Neutral	Neutral
61	ACVR1_HUMAN	R206H	Disease	Neutral
62	ADA30_HUMAN	L359P	Neutral	Neutral
63	ADCY1_HUMAN	A940T	Neutral	Neutral
64	ADCY1_HUMAN	P456L	Neutral	Neutral
65	ADDB_HUMAN	E335D	Neutral	Neutral
66	ADDB_HUMAN	D28N	Neutral	Neutral
67	ADDB_HUMAN	S663R	Neutral	Neutral
68	ADDB_HUMAN	T439A	Neutral	Neutral
69	ADH7_HUMAN	G80A	Neutral	Neutral
70	ADHX_HUMAN	V309I	Neutral	Neutral
71	ADHX_HUMAN	L163S	Neutral	Neutral
72	ADRO_HUMAN	P248L	Neutral	Neutral
73	ADRO_HUMAN	T345M	Neutral	Neutral
74	ADRO_HUMAN	P352S	Neutral	Neutral
75	ADRO_HUMAN	T472A	Neutral	Neutral
76	ADRO_HUMAN	R251W	Neutral	Neutral
77	ADRO_HUMAN	R301C	Neutral	Neutral
78	AKA10_HUMAN	I646V	Neutral	Neutral
79	AKA10_HUMAN	R249H	Neutral	Neutral
80	AKA7G_HUMAN	S193N	Neutral	Neutral
81	AKAP9_HUMAN	M475I	Neutral	Neutral
82	AL1A2_HUMAN	E50G	Neutral	Neutral
83	AL1A2_HUMAN	E436K	Neutral	Neutral
84	AL1A2_HUMAN	V348I	Neutral	Neutral
85	AL1A2_HUMAN	A110V	Neutral	Neutral
86	ALG8_HUMAN	N222S	Neutral	Neutral
87	ALG8_HUMAN	T47P	Disease	Neutral
88	ALG8_HUMAN	G275D	Disease	Neutral
89	ALKB3_HUMAN	R164C	Neutral	Neutral
90	ALKB3_HUMAN	D228E	Neutral	Neutral

91	ALPK3_HUMAN	L1622P	Neutral	Neutral
92	ANGL7_HUMAN	E51D	Neutral	Neutral
93	ANGL7_HUMAN	Q175H	Neutral	Neutral
94	ANGL7_HUMAN	R140H	Neutral	Neutral
95	ANK1_HUMAN	D845E	Neutral	Neutral
96	ANK1_HUMAN	V463I	Disease	Neutral
97	ANK1_HUMAN	V991L	Neutral	Neutral
98	ANK1_HUMAN	V750A	Neutral	Neutral
99	ANK1_HUMAN	R619H	Neutral	Neutral
100	ANK1_HUMAN	A1126P	Neutral	Neutral
101	ANK1_HUMAN	L733I	Neutral	Neutral
102	ANK1_HUMAN	R21T	Neutral	Neutral
103	ANKR5_HUMAN	L324Q	Neutral	Neutral
104	ANLN_HUMAN	R185K	Neutral	Neutral
105	ANM3_HUMAN	L440V	Neutral	Neutral
106	ANR12_HUMAN	S171T	Neutral	Neutral
107	ANR22_HUMAN	Y79H	Neutral	Neutral
108	ANR22_HUMAN	E73G	Neutral	Neutral
109	ANR26_HUMAN	F1513L	Neutral	Neutral
110	ANR38_HUMAN	H822R	Neutral	Neutral
111	ANR38_HUMAN	V935L	Neutral	Neutral
112	ANR38_HUMAN	V840A	Neutral	Neutral
113	ANR42_HUMAN	N198D	Neutral	Neutral
114	ANR47_HUMAN	R359H	Neutral	Neutral
115	ANTR2_HUMAN	L329R	Disease	Disease
116	ANTR2_HUMAN	Y381C	Disease	Disease
117	ANTR2_HUMAN	P357A	Neutral	Neutral
118	AP1G2_HUMAN	S377F	Neutral	Neutral
119	APC10_HUMAN	R46Q	Neutral	Neutral
120	APIP_HUMAN	C76Y	Neutral	Neutral
121	AQP3_HUMAN	V43M	Neutral	Neutral
122	ARBK2_HUMAN	V409M	Neutral	Neutral
123	ARH_HUMAN	S202P	Neutral	Neutral
124	ARH_HUMAN	S202H	Disease	Neutral
125	ARL11_HUMAN	C148R	Neutral	Neutral
126	ARL11_HUMAN	S22L	Neutral	Neutral
127	ARL11_HUMAN	P131L	Neutral	Neutral
128	ARL11_HUMAN	E164K	Neutral	Neutral
129	ARL4D_HUMAN	T91N	Neutral	Neutral
130	ARP5_HUMAN	R298L	Neutral	Neutral
131	ARRC_HUMAN	L44F	Neutral	Neutral
132	ARRD2_HUMAN	R181H	Neutral	Neutral
133	ARRD2_HUMAN	L396P	Neutral	Neutral
134	ARRD2_HUMAN	A244T	Neutral	Neutral
135	ARRD2_HUMAN	R192H	Neutral	Neutral
136	ARSE_HUMAN	G117R	Disease	Disease
137	ARSE_HUMAN	I80N	Disease	Disease

138	ARSE_HUMAN	P578S	Disease	Neutral
139	ARSE_HUMAN	C492Y	Disease	Disease
140	ARSE_HUMAN	G137V	Disease	Disease
141	ARSE_HUMAN	T481M	Disease	Disease
142	ASCC2_HUMAN	R509Q	Neutral	Neutral
143	ASCC2_HUMAN	R639L	Neutral	Neutral
144	ASCC2_HUMAN	D407H	Neutral	Neutral
145	ASNS_HUMAN	V210E	Neutral	Neutral
146	AT1A3_HUMAN	E277K	Disease	Disease
147	AT1A3_HUMAN	I274T	Disease	Disease
148	AT1A3_HUMAN	T613M	Disease	Disease
149	AT2B3_HUMAN	I198M	Neutral	Neutral
150	ATBF1_HUMAN	T428P	Neutral	Neutral
151	ATF4_HUMAN	P258A	Neutral	Neutral
152	ATF4_HUMAN	Q22P	Neutral	Neutral
153	ATF4_HUMAN	E322D	Neutral	Neutral
154	ATP7B_HUMAN	G691R	Disease	Disease
155	ATP7B_HUMAN	R969Q	Disease	Disease
156	ATP7B_HUMAN	E1064K	Disease	Disease
157	ATP7B_HUMAN	R616Q	Disease	Disease
158	ATP7B_HUMAN	R919W	Disease	Disease
159	ATP7B_HUMAN	E1064A	Disease	Disease
160	ATP7B_HUMAN	L708P	Disease	Disease
161	ATP7B_HUMAN	R1041W	Disease	Disease
162	ATP7B_HUMAN	S1363F	Disease	Disease
163	ATP7B_HUMAN	T1031I	Disease	Disease
164	ATP7B_HUMAN	L492S	Disease	Disease
165	ATP7B_HUMAN	C985Y	Disease	Disease
166	ATP7B_HUMAN	S1310R	Disease	Disease
167	ATP7B_HUMAN	A1183G	Disease	Disease
168	ATP7B_HUMAN	G711E	Disease	Disease
169	ATP7B_HUMAN	V890M	Disease	Disease
170	ATP7B_HUMAN	L1373P	Disease	Disease
171	ATP7B_HUMAN	D918N	Disease	Disease
172	ATP7B_HUMAN	G711W	Disease	Disease
173	ATP7B_HUMAN	T1220M	Disease	Disease
174	ATP7B_HUMAN	Q898R	Disease	Disease
175	ATP7B_HUMAN	I1102T	Disease	Disease
176	ATP7B_HUMAN	P1052L	Disease	Disease
177	ATP7B_HUMAN	G626A	Disease	Disease
178	ATP7B_HUMAN	D918E	Disease	Disease
179	ATP7B_HUMAN	W1353R	Disease	Disease
180	ATP7B_HUMAN	Q1095P	Disease	Disease
181	ATP7B_HUMAN	Q1142H	Disease	Disease
182	ATP7B_HUMAN	I747F	Disease	Disease
183	ATP7B_HUMAN	D765N	Disease	Disease
184	ATP7B_HUMAN	I390V	Neutral	Disease

185	ATP7B_HUMAN	V995A	Neutral	Disease
186	ATP7B_HUMAN	R1038K	Disease	Disease
187	ATP7B_HUMAN	T933P	Disease	Disease
188	ATP7B_HUMAN	P690L	Disease	Disease
189	ATP7B_HUMAN	A1063V	Disease	Disease
190	ATP7B_HUMAN	R1322P	Disease	Disease
191	ATP7B_HUMAN	L466V	Neutral	Disease
192	ATP7B_HUMAN	G1186C	Disease	Disease
193	ATP7B_HUMAN	P768H	Disease	Disease
194	ATP7B_HUMAN	V446L	Neutral	Disease
195	ATP7B_HUMAN	G943S	Disease	Disease
196	ATP7B_HUMAN	I1148T	Disease	Disease
197	ATP7B_HUMAN	G1101R	Disease	Disease
198	ATP7B_HUMAN	S721P	Disease	Disease
199	ATP7B_HUMAN	T1232P	Disease	Disease
200	ATP7B_HUMAN	D1222Y	Disease	Disease
201	ATP7B_HUMAN	L1305P	Disease	Disease
202	ATP7B_HUMAN	L641S	Disease	Disease
203	ATP7B_HUMAN	V1239G	Disease	Disease
204	ATP7B_HUMAN	G1089E	Disease	Disease
205	ATP7B_HUMAN	V1262F	Disease	Disease
206	ATP7B_HUMAN	N1270S	Disease	Disease
207	ATP7B_HUMAN	G943D	Disease	Disease
208	ATP7B_HUMAN	G85V	Disease	Disease
209	ATP7B_HUMAN	R1041P	Disease	Disease
210	ATP7B_HUMAN	P1245S	Neutral	Disease
211	ATP7B_HUMAN	R616W	Disease	Disease
212	ATP7B_HUMAN	F1094L	Disease	Disease
213	ATP7B_HUMAN	V1146M	Disease	Disease
214	ATP7B_HUMAN	S744P	Disease	Disease
215	ATP7B_HUMAN	K832R	Neutral	Disease
216	ATP7B_HUMAN	V1140A	Neutral	Disease
217	ATP7B_HUMAN	M665I	Disease	Disease
218	ATP7B_HUMAN	T1143N	Neutral	Disease
219	ATP7B_HUMAN	P1098R	Disease	Disease
220	ATP7B_HUMAN	T977M	Disease	Disease
221	ATP7B_HUMAN	A1018V	Disease	Disease
222	ATP7B_HUMAN	G710A	Disease	Disease
223	ATP7B_HUMAN	A1358S	Disease	Disease
224	ATP7B_HUMAN	T737R	Disease	Disease
225	ATP7B_HUMAN	W1153C	Disease	Disease
226	ATP7B_HUMAN	P992L	Disease	Disease
227	ATP7B_HUMAN	V456L	Neutral	Disease
228	ATP7B_HUMAN	M645R	Disease	Disease
229	ATP7B_HUMAN	T935M	Disease	Disease
230	ATP7B_HUMAN	G1341D	Disease	Disease
231	ATP7B_HUMAN	D1271N	Disease	Disease

232	ATP7B_HUMAN	Y713C	Disease	Disease
233	ATP7B_HUMAN	I967F	Disease	Disease
234	ATP7B_HUMAN	L1327V	Disease	Disease
235	ATP7B_HUMAN	W1153R	Disease	Disease
236	ATP7B_HUMAN	G711R	Disease	Disease
237	ATP7B_HUMAN	M1169T	Disease	Disease
238	ATP7B_HUMAN	G710S	Disease	Disease
239	ATP7B_HUMAN	C1104F	Disease	Disease
240	ATP7B_HUMAN	G1186S	Disease	Disease
241	ATP7B_HUMAN	G1213V	Disease	Disease
242	ATP7B_HUMAN	M769V	Disease	Disease
243	ATP7B_HUMAN	P840L	Disease	Disease
244	ATP7B_HUMAN	A1183T	Disease	Disease
245	ATP7B_HUMAN	R778W	Disease	Disease
246	ATP7B_HUMAN	D1279G	Disease	Disease
247	ATP7B_HUMAN	A1278V	Disease	Disease
248	ATP7B_HUMAN	A1168S	Disease	Disease
249	ATP7B_HUMAN	G891V	Disease	Disease
250	ATP7B_HUMAN	V1216M	Disease	Disease
251	ATP7B_HUMAN	G1111D	Disease	Disease
252	ATP7B_HUMAN	L1255I	Disease	Disease
253	ATP7B_HUMAN	M1169V	Neutral	Disease
254	ATP7B_HUMAN	R1151H	Disease	Disease
255	ATP7B_HUMAN	R723G	Neutral	Disease
256	ATP7B_HUMAN	G1266R	Disease	Disease
257	ATP7B_HUMAN	S406A	Neutral	Disease
258	ATP7B_HUMAN	L795F	Disease	Disease
259	ATP7B_HUMAN	I857T	Disease	Disease
260	ATP7B_HUMAN	G1355C	Disease	Disease
261	ATP7B_HUMAN	G1089V	Disease	Disease
262	ATP7B_HUMAN	N565S	Neutral	Disease
263	ATP7B_HUMAN	G1176R	Disease	Disease
264	ATP7B_HUMAN	S975Y	Disease	Disease
265	ATP7B_HUMAN	H1069Q	Disease	Disease
266	ATP7B_HUMAN	V1106D	Disease	Disease
267	ATP7B_HUMAN	H1207R	Neutral	Disease
268	ATP7B_HUMAN	D1222V	Disease	Disease
269	ATP7B_HUMAN	P1273L	Disease	Disease
270	ATP7B_HUMAN	L776V	Neutral	Disease
271	ATP7B_HUMAN	L1373R	Disease	Disease
272	ATP7B_HUMAN	P760L	Disease	Disease
273	ATP7B_HUMAN	G1035V	Disease	Disease
274	ATP7B_HUMAN	T1033A	Disease	Disease
275	ATP7B_HUMAN	V1109M	Neutral	Disease
276	ATP7B_HUMAN	G1061E	Disease	Disease
277	ATP7B_HUMAN	G1355S	Disease	Disease
278	ATP7B_HUMAN	G710R	Disease	Disease

279	ATP7B_HUMAN	S921N	Disease	Disease
280	ATP7B_HUMAN	R778L	Disease	Disease
281	ATP7B_HUMAN	L1043P	Disease	Disease
282	ATP7B_HUMAN	K1248N	Disease	Disease
283	ATP7B_HUMAN	G1099S	Disease	Disease
284	ATP7B_HUMAN	L795R	Disease	Disease
285	ATP7B_HUMAN	L1083F	Disease	Disease
286	ATP7B_HUMAN	S693C	Disease	Disease
287	ATP7B_HUMAN	R919G	Disease	Disease
288	ATP7B_HUMAN	I1336T	Disease	Disease
289	ATP7B_HUMAN	M769I	Disease	Disease
290	ATP7B_HUMAN	R778Q	Disease	Disease
291	ATP7B_HUMAN	G96D	Neutral	Disease
292	ATP7B_HUMAN	G1266V	Disease	Disease
293	ATP7B_HUMAN	V1297I	Neutral	Disease
294	ATP7B_HUMAN	D1267A	Disease	Disease
295	ATP7B_HUMAN	R778G	Disease	Disease
296	ATP7B_HUMAN	T1033S	Disease	Disease
297	ATP7B_HUMAN	Y741C	Disease	Disease
298	ATP7B_HUMAN	D765G	Disease	Disease
299	ATP7B_HUMAN	E1068G	Disease	Disease
300	ATP7B_HUMAN	D642H	Disease	Disease
301	ATP7B_HUMAN	M769R	Disease	Disease
302	ATP7B_HUMAN	V949G	Disease	Disease
303	ATP7B_HUMAN	E1173K	Disease	Disease
304	ATP7B_HUMAN	T1434M	Disease	Disease
305	ATPBB_HUMAN	Q227R	Neutral	Neutral
306	ATPBB_HUMAN	R264G	Neutral	Neutral
307	ATS13_HUMAN	Q456H	Neutral	Disease
308	ATS13_HUMAN	H96D	Disease	Neutral
309	ATS13_HUMAN	R1336W	Disease	Neutral
310	ATS13_HUMAN	W390C	Disease	Neutral
311	ATS13_HUMAN	Q448E	Neutral	Disease
312	ATS13_HUMAN	R102C	Disease	Neutral
313	ATS13_HUMAN	R1123C	Disease	Neutral
314	ATS13_HUMAN	A1033T	Neutral	Disease
315	ATS13_HUMAN	R193W	Disease	Neutral
316	ATS13_HUMAN	C1024G	Disease	Neutral
317	ATS13_HUMAN	T196I	Disease	Neutral
318	ATS13_HUMAN	R398H	Disease	Disease
319	ATS13_HUMAN	C1213Y	Disease	Neutral
320	ATS13_HUMAN	R692C	Disease	Neutral
321	ATS13_HUMAN	C951G	Disease	Neutral
322	ATS13_HUMAN	P457L	Neutral	Neutral
323	ATS13_HUMAN	G1239V	Disease	Disease
324	ATS13_HUMAN	R625H	Neutral	Disease
325	ATS13_HUMAN	V88M	Disease	Disease

326	ATS13_HUMAN	R528G	Disease	Neutral
327	ATS13_HUMAN	E740K	Neutral	Disease
328	ATS13_HUMAN	S903L	Neutral	Neutral
329	ATS13_HUMAN	C508Y	Disease	Neutral
330	ATS13_HUMAN	T1226I	Neutral	Neutral
331	ATS13_HUMAN	I673F	Disease	Disease
332	ATS13_HUMAN	C908Y	Disease	Neutral
333	ATS13_HUMAN	A900V	Neutral	Disease
334	AURKB_HUMAN	H100Q	Neutral	Neutral
335	AUXI_HUMAN	S671N	Neutral	Neutral
336	B3GN1_HUMAN	T253S	Neutral	Neutral
337	B4GN3_HUMAN	R265Q	Neutral	Neutral
338	BAAT_HUMAN	M76V	Disease	Neutral
339	BAIP3_HUMAN	D582A	Neutral	Neutral
340	BAT3_HUMAN	S625P	Neutral	Neutral
341	BAZ1A_HUMAN	D344E	Neutral	Neutral
342	BBS5_HUMAN	N184S	Disease	Neutral
343	BBS5_HUMAN	R207H	Disease	Neutral
344	BBS7_HUMAN	H323R	Disease	Neutral
345	BBS7_HUMAN	T211I	Disease	Neutral
346	BFSP1_HUMAN	G345S	Neutral	Neutral
347	BIG2_HUMAN	A527V	Neutral	Disease
348	BKLN5_HUMAN	D146G	Neutral	Neutral
349	BMPER_HUMAN	R555W	Neutral	Neutral
350	BMR1B_HUMAN	I200K	Disease	Disease
351	BPIL2_HUMAN	S451P	Neutral	Neutral
352	BPIL2_HUMAN	V269A	Neutral	Neutral
353	BPIL3_HUMAN	V97I	Neutral	Neutral
354	BRDT_HUMAN	K238N	Neutral	Neutral
355	BRDT_HUMAN	N410K	Neutral	Neutral
356	BRPF1_HUMAN	G1117E	Neutral	Neutral
357	BRWD1_HUMAN	S1511P	Neutral	Neutral
358	BSPRY_HUMAN	Q293H	Neutral	Neutral
359	BSPRY_HUMAN	T374I	Neutral	Neutral
360	BTC_HUMAN	L124M	Neutral	Neutral
361	BTK_HUMAN	L542P	Disease	Disease
362	BTK_HUMAN	E589G	Disease	Disease
363	BTK_HUMAN	K430R	Disease	Disease
364	BTK_HUMAN	F25S	Disease	Disease
365	BTK_HUMAN	Y598C	Disease	Disease
366	BTK_HUMAN	V64D	Disease	Disease
367	BTK_HUMAN	D521G	Disease	Disease
368	BTK_HUMAN	L512P	Disease	Disease
369	BTK_HUMAN	R525G	Disease	Disease
370	BTK_HUMAN	G414R	Disease	Disease
371	BTK_HUMAN	S14F	Disease	Disease
372	BTK_HUMAN	L369F	Disease	Disease

373	BTK_HUMAN	P619T	Disease	Disease
374	BTK_HUMAN	Y40C	Disease	Disease
375	BTK_HUMAN	R562W	Disease	Disease
376	BTK_HUMAN	M477R	Disease	Disease
377	BTK_HUMAN	E567K	Disease	Disease
378	BTK_HUMAN	L11P	Disease	Disease
379	BTK_HUMAN	E589D	Disease	Disease
380	BTK_HUMAN	K430E	Disease	Disease
381	BTK_HUMAN	R307G	Disease	Disease
382	BTK_HUMAN	G594R	Disease	Disease
383	BTK_HUMAN	C502F	Disease	Disease
384	BTK_HUMAN	Y476D	Disease	Disease
385	BTK_HUMAN	Y334S	Disease	Disease
386	BTK_HUMAN	T117P	Disease	Disease
387	BTK_HUMAN	D521N	Disease	Disease
388	BTK_HUMAN	L295P	Disease	Disease
389	BTK_HUMAN	A508D	Disease	Disease
390	BTK_HUMAN	G594E	Disease	Disease
391	BTK_HUMAN	S115F	Disease	Disease
392	BTK_HUMAN	T33P	Disease	Disease
393	BTK_HUMAN	G462D	Disease	Disease
394	BTK_HUMAN	A607D	Disease	Disease
395	BTK_HUMAN	N526K	Disease	Disease
396	BTK_HUMAN	P619S	Disease	Disease
397	BTK_HUMAN	H362Q	Disease	Disease
398	BTK_HUMAN	E445D	Disease	Disease
399	BTK_HUMAN	R520Q	Disease	Disease
400	BTK_HUMAN	G462V	Disease	Disease
401	BTK_HUMAN	R544K	Disease	Neutral
402	BTK_HUMAN	T184P	Disease	Disease
403	BTK_HUMAN	S592P	Disease	Disease
404	BTK_HUMAN	C506Y	Disease	Disease
405	BTK_HUMAN	C633Y	Disease	Disease
406	BTK_HUMAN	A523E	Disease	Disease
407	BTK_HUMAN	W581R	Disease	Disease
408	BTK_HUMAN	R288W	Disease	Disease
409	BTK_HUMAN	F583S	Disease	Disease
410	BTK_HUMAN	I429N	Disease	Disease
411	BTK_HUMAN	F559S	Disease	Disease
412	BTK_HUMAN	R562P	Disease	Disease
413	BTK_HUMAN	V64F	Disease	Disease
414	BTK_HUMAN	K12R	Disease	Disease
415	BTK_HUMAN	C154S	Disease	Disease
416	BTK_HUMAN	V113D	Disease	Disease
417	BTK_HUMAN	I370M	Disease	Disease
418	BTK_HUMAN	R288Q	Disease	Disease
419	BTK_HUMAN	C502W	Disease	Disease

420	BTK_HUMAN	R525Q	Disease	Disease
421	BTK_HUMAN	R28P	Disease	Disease
422	BTK_HUMAN	E589K	Disease	Disease
423	BTK_HUMAN	K19E	Disease	Disease
424	BTK_HUMAN	W563L	Disease	Disease
425	BTK_HUMAN	P619A	Disease	Disease
426	BTK_HUMAN	R372G	Disease	Disease
427	BTK_HUMAN	V319A	Disease	Disease
428	BTK_HUMAN	L408P	Disease	Disease
429	BTK_HUMAN	R525P	Disease	Disease
430	BTK_HUMAN	Q127H	Disease	Disease
431	BTK_HUMAN	C506R	Disease	Disease
432	BTK_HUMAN	S366F	Disease	Disease
433	BTK_HUMAN	L512Q	Disease	Disease
434	BTK_HUMAN	N365Y	Disease	Disease
435	BTK_HUMAN	L358F	Disease	Disease
436	BTK_HUMAN	M509I	Disease	Disease
437	BTK_HUMAN	S578Y	Disease	Disease
438	BTK_HUMAN	G613D	Disease	Disease
439	BTK_HUMAN	G302E	Disease	Disease
440	BTK_HUMAN	V535F	Disease	Disease
441	BTK_HUMAN	Y418H	Disease	Disease
442	BTK_HUMAN	I61N	Disease	Disease
443	BTK_HUMAN	M630T	Disease	Disease
444	BTK_HUMAN	M587L	Disease	Disease
445	BTK_HUMAN	R28H	Disease	Disease
446	BTK_HUMAN	R307T	Disease	Disease
447	BTK_HUMAN	Y39S	Disease	Disease
448	BTK_HUMAN	V626G	Disease	Disease
449	BTK_HUMAN	C155G	Disease	Disease
450	BTK_HUMAN	K27R	Disease	Disease
451	BTK_HUMAN	A582V	Disease	Disease
452	BTK_HUMAN	Y40N	Disease	Disease
453	BTK_HUMAN	R28C	Disease	Disease
454	BTK_HUMAN	M630K	Disease	Disease
455	BTK_HUMAN	C155R	Disease	Disease
456	BTK_HUMAN	M509V	Disease	Disease
457	BTK_HUMAN	D521H	Disease	Disease
458	BTK_HUMAN	H364P	Disease	Disease
459	BTK_HUMAN	M630I	Neutral	Disease
460	BTK_HUMAN	D308E	Disease	Disease
461	BTK_HUMAN	G302R	Disease	Disease
462	BTK_HUMAN	Y361C	Disease	Disease
463	BTK_HUMAN	A622P	Disease	Disease
464	BTK_HUMAN	R544G	Disease	Disease
465	BTK_HUMAN	L518R	Disease	Disease
466	BUPI_HUMAN	A85E	Disease	Neutral

467	CA026_HUMAN	L638F	Neutral	Neutral
468	CA026_HUMAN	H536R	Neutral	Neutral
469	CA049_HUMAN	A146G	Neutral	Neutral
470	CA049_HUMAN	E55G	Neutral	Neutral
471	CA049_HUMAN	L171R	Neutral	Neutral
472	CA156_HUMAN	A325V	Neutral	Neutral
473	CA156_HUMAN	K360M	Neutral	Neutral
474	CABL2_HUMAN	T428K	Neutral	Neutral
475	CACB3_HUMAN	R423H	Neutral	Neutral
476	CAD10_HUMAN	S413F	Neutral	Neutral
477	CADH2_HUMAN	A118T	Neutral	Neutral
478	CADH2_HUMAN	S196T	Neutral	Neutral
479	CADH2_HUMAN	N845S	Neutral	Neutral
480	CADH2_HUMAN	I212L	Neutral	Neutral
481	CADH5_HUMAN	I503T	Neutral	Neutral
482	CAH4_HUMAN	R219S	Disease	Neutral
483	CAH9_HUMAN	V33M	Neutral	Neutral
484	CAH9_HUMAN	Q326R	Neutral	Neutral
485	CALR3_HUMAN	D248G	Neutral	Neutral
486	CALR3_HUMAN	V274I	Neutral	Neutral
487	CALR3_HUMAN	L8F	Neutral	Neutral
488	CAN13_HUMAN	A280T	Neutral	Neutral
489	CAN13_HUMAN	H249Y	Neutral	Neutral
490	CAN13_HUMAN	I596T	Neutral	Neutral
491	CAND1_HUMAN	A952V	Neutral	Neutral
492	CAP1_HUMAN	S256A	Neutral	Neutral
493	CAP1_HUMAN	I245S	Neutral	Neutral
494	CAP1_HUMAN	C247G	Neutral	Neutral
495	CAP1_HUMAN	Y249D	Neutral	Neutral
496	CAP1_HUMAN	C236G	Neutral	Neutral
497	CAR10_HUMAN	R289Q	Neutral	Neutral
498	CAR11_HUMAN	S694L	Neutral	Neutral
499	CAR11_HUMAN	T670M	Neutral	Neutral
500	CASP5_HUMAN	R152H	Neutral	Neutral
501	CASP5_HUMAN	V201L	Neutral	Neutral
502	CBP_HUMAN	R1378P	Disease	Disease
503	CBP_HUMAN	V1414I	Neutral	Disease
504	CBPA6_HUMAN	S173C	Neutral	Neutral
505	CBPD_HUMAN	H505N	Neutral	Neutral
506	CBPZ_HUMAN	T501M	Neutral	Neutral
507	CC017_HUMAN	T476A	Neutral	Neutral
508	CC017_HUMAN	E101K	Neutral	Neutral
509	CC017_HUMAN	P352S	Neutral	Neutral
510	CCD1A_HUMAN	T339P	Neutral	Neutral
511	CCD1A_HUMAN	T635S	Neutral	Neutral
512	CCD1A_HUMAN	T801M	Neutral	Neutral
513	CCD42_HUMAN	A144T	Neutral	Neutral

514	CCL26_HUMAN	L18R	Neutral	Neutral
515	CCM2_HUMAN	V53I	Neutral	Neutral
516	CCM2_HUMAN	V120I	Neutral	Neutral
517	CCM2_HUMAN	L198R	Disease	Neutral
518	CCRK_HUMAN	S86L	Neutral	Neutral
519	CCRK_HUMAN	K281R	Neutral	Neutral
520	CCRL2_HUMAN	V168M	Neutral	Neutral
521	CCRL2_HUMAN	F167Y	Neutral	Neutral
522	CCRL2_HUMAN	I243V	Neutral	Neutral
523	CD014_HUMAN	A153S	Neutral	Neutral
524	CD109_HUMAN	Y703S	Neutral	Neutral
525	CD109_HUMAN	V845I	Neutral	Neutral
526	CD109_HUMAN	N797S	Neutral	Neutral
527	CD151_HUMAN	R178H	Neutral	Neutral
528	CD151_HUMAN	K132R	Neutral	Neutral
529	CD151_HUMAN	P137S	Neutral	Neutral
530	CD151_HUMAN	T120M	Neutral	Neutral
531	CD166_HUMAN	N258S	Neutral	Neutral
532	CD166_HUMAN	T301M	Neutral	Neutral
533	CD166_HUMAN	V352M	Neutral	Neutral
534	CD166_HUMAN	G229D	Neutral	Neutral
535	CD166_HUMAN	L315M	Neutral	Neutral
536	CD4_HUMAN	R265W	Neutral	Neutral
537	CD4_HUMAN	K191E	Neutral	Neutral
538	CD4_HUMAN	F227S	Neutral	Neutral
539	CDC73_HUMAN	L64P	Disease	Neutral
540	CDKL5_HUMAN	R175S	Disease	Disease
541	CDKL5_HUMAN	C152F	Disease	Neutral
542	CDT1_HUMAN	E456A	Neutral	Neutral
543	CDT1_HUMAN	R172C	Neutral	Neutral
544	CDX1_HUMAN	P130R	Neutral	Neutral
545	CE016_HUMAN	L133I	Neutral	Neutral
546	CE016_HUMAN	S128P	Neutral	Neutral
547	CECR2_HUMAN	P674L	Neutral	Neutral
548	CEL2R2_HUMAN	Y1639H	Neutral	Neutral
549	CENG1_HUMAN	V455A	Disease	Disease
550	CENG1_HUMAN	N939D	Disease	Disease
551	CENG1_HUMAN	E767V	Disease	Disease
552	CENG1_HUMAN	G507S	Neutral	Disease
553	CENG1_HUMAN	A651V	Disease	Disease
554	CENG1_HUMAN	S1022P	Disease	Disease
555	CENG1_HUMAN	V947M	Disease	Disease
556	CENG1_HUMAN	R518G	Disease	Disease
557	CF075_HUMAN	L230Q	Neutral	Neutral
558	CF096_HUMAN	T132M	Neutral	Neutral
559	CF097_HUMAN	A331T	Neutral	Neutral
560	CF097_HUMAN	V604I	Neutral	Neutral

561	CF097_HUMAN	V683I	Neutral	Neutral
562	CF097_HUMAN	F324S	Neutral	Neutral
563	CF097_HUMAN	A269V	Neutral	Neutral
564	CF105_HUMAN	V202I	Neutral	Neutral
565	CF113_HUMAN	N379D	Neutral	Neutral
566	CF190_HUMAN	V284G	Neutral	Neutral
567	CFAH_HUMAN	I551T	Neutral	Disease
568	CFAH_HUMAN	Y402H	Neutral	Disease
569	CFAH_HUMAN	C536R	Disease	Disease
570	CG036_HUMAN	K68E	Neutral	Neutral
571	CH3L1_HUMAN	R145G	Neutral	Neutral
572	CH3L1_HUMAN	I311T	Neutral	Neutral
573	CHCH6_HUMAN	A95S	Neutral	Neutral
574	CHSS1_HUMAN	P359S	Neutral	Neutral
575	CHSS1_HUMAN	Q652H	Neutral	Neutral
576	CHST3_HUMAN	R304Q	Disease	Disease
577	CHST3_HUMAN	I348M	Neutral	Disease
578	CHST3_HUMAN	R357Q	Neutral	Disease
579	CHX10_HUMAN	R227W	Disease	Neutral
580	CI121_HUMAN	S76C	Neutral	Neutral
581	CJ033_HUMAN	M461T	Neutral	Neutral
582	CJ033_HUMAN	P428S	Neutral	Neutral
583	CJ033_HUMAN	A533T	Neutral	Neutral
584	CK073_HUMAN	P47A	Neutral	Neutral
585	CKAP2_HUMAN	I323V	Neutral	Neutral
586	CKAP4_HUMAN	A348T	Neutral	Neutral
587	CLCF1_HUMAN	R197L	Disease	Neutral
588	CLD6_HUMAN	I143V	Neutral	Neutral
589	CLGN_HUMAN	A160S	Neutral	Neutral
590	CLOCK_HUMAN	H542R	Neutral	Neutral
591	CLOCK_HUMAN	L395I	Neutral	Neutral
592	CLP46_HUMAN	P229T	Neutral	Neutral
593	CLP46_HUMAN	K75R	Neutral	Neutral
594	CMGA_HUMAN	E264D	Neutral	Neutral
595	CMGA_HUMAN	G315S	Neutral	Neutral
596	CMGA_HUMAN	L332P	Neutral	Neutral
597	CMGA_HUMAN	P388L	Neutral	Neutral
598	CMGA_HUMAN	G382S	Neutral	Neutral
599	CMTA2_HUMAN	S903P	Neutral	Neutral
600	CND2_HUMAN	V539A	Neutral	Neutral
601	CNR2_HUMAN	H316Y	Neutral	Neutral
602	CO5A1_HUMAN	G1489D	Disease	Disease
603	CO8G_HUMAN	H124N	Neutral	Neutral
604	COBA2_HUMAN	R1600Q	Neutral	Neutral
605	COBA2_HUMAN	G1441E	Disease	Neutral
606	COBA2_HUMAN	P621T	Disease	Neutral
607	COBA2_HUMAN	G661R	Disease	Neutral

608	COBA2_HUMAN	P879L	Neutral	Neutral
609	COBA2_HUMAN	D593G	Neutral	Neutral
610	COBA2_HUMAN	P1316T	Neutral	Neutral
611	COBA2_HUMAN	E824K	Neutral	Neutral
612	COBA2_HUMAN	R1034C	Disease	Neutral
613	COBA2_HUMAN	G808E	Disease	Neutral
614	COHA1_HUMAN	M231I	Neutral	Neutral
615	COHA1_HUMAN	R1303Q	Disease	Neutral
616	COHA1_HUMAN	G633D	Disease	Neutral
617	COHA1_HUMAN	M238T	Neutral	Neutral
618	COHA1_HUMAN	G627V	Disease	Neutral
619	COHA1_HUMAN	D1370G	Neutral	Neutral
620	COHA1_HUMAN	S265C	Disease	Neutral
621	COHA1_HUMAN	T210M	Neutral	Neutral
622	COJA1_HUMAN	A352G	Neutral	Neutral
623	COLQ_HUMAN	P59Q	Disease	Disease
624	COMD2_HUMAN	I113L	Neutral	Neutral
625	COMD2_HUMAN	Q177H	Neutral	Neutral
626	COQ2_HUMAN	Y247C	Disease	Neutral
627	COR1A_HUMAN	R414K	Neutral	Neutral
628	CP2W1_HUMAN	A181T	Neutral	Neutral
629	CRCM1_HUMAN	R91W	Disease	Neutral
630	CREL2_HUMAN	D182E	Neutral	Neutral
631	CRLD2_HUMAN	T322S	Neutral	Neutral
632	CRUM2_HUMAN	G159A	Neutral	Neutral
633	CRUM2_HUMAN	T1110M	Neutral	Neutral
634	CRUM2_HUMAN	R610W	Neutral	Neutral
635	CRUM2_HUMAN	V97L	Disease	Neutral
636	CRUM2_HUMAN	H746Q	Neutral	Neutral
637	CRUM2_HUMAN	A351T	Disease	Neutral
638	CRUM2_HUMAN	E187D	Disease	Neutral
639	CRUM2_HUMAN	M145T	Neutral	Neutral
640	CRUM2_HUMAN	P116L	Disease	Neutral
641	CRUM2_HUMAN	R534Q	Disease	Neutral
642	CSK_HUMAN	H442R	Neutral	Neutral
643	CSK_HUMAN	G287D	Neutral	Neutral
644	CSK_HUMAN	R398Q	Neutral	Neutral
645	CSMD2_HUMAN	A2117V	Neutral	Neutral
646	CSMD2_HUMAN	L2661R	Neutral	Neutral
647	CSMD2_HUMAN	M2554V	Neutral	Neutral
648	CT043_HUMAN	T159A	Neutral	Neutral
649	CT079_HUMAN	P99S	Neutral	Neutral
650	CT111_HUMAN	V74G	Neutral	Neutral
651	CU005_HUMAN	R1217S	Neutral	Neutral
652	CU005_HUMAN	G2139E	Neutral	Neutral
653	CUBN_HUMAN	P2575R	Neutral	Neutral
654	CUBN_HUMAN	N1545Y	Neutral	Neutral

655	CUBN_HUMAN	P1297L	Disease	Neutral
656	CUBN_HUMAN	S2717W	Neutral	Neutral
657	CUBN_HUMAN	G2691R	Neutral	Neutral
658	CUBN_HUMAN	Y1032H	Neutral	Neutral
659	CUBN_HUMAN	V1769I	Neutral	Neutral
660	CUBN_HUMAN	L2879I	Neutral	Neutral
661	CUBN_HUMAN	N3552K	Neutral	Neutral
662	CUBN_HUMAN	I2984V	Neutral	Neutral
663	CUBN_HUMAN	E3002G	Neutral	Neutral
664	CUBN_HUMAN	L2153F	Neutral	Neutral
665	CUBN_HUMAN	T3422I	Neutral	Neutral
666	CUL4A_HUMAN	K644R	Neutral	Neutral
667	CV025_HUMAN	E200K	Neutral	Neutral
668	CV025_HUMAN	D125N	Neutral	Neutral
669	CV028_HUMAN	L343F	Neutral	Neutral
670	CXA12_HUMAN	P90S	Disease	Neutral
671	CXA12_HUMAN	M286T	Disease	Neutral
672	CXA12_HUMAN	Y272D	Disease	Neutral
673	CXCR6_HUMAN	E3K	Neutral	Neutral
674	CYLN2_HUMAN	R977P	Neutral	Neutral
675	D2HDH_HUMAN	D375Y	Disease	Neutral
676	D2HDH_HUMAN	I147S	Disease	Neutral
677	DCTN4_HUMAN	S438N	Neutral	Neutral
678	DCTN4_HUMAN	F342L	Neutral	Neutral
679	DDX46_HUMAN	E207Q	Neutral	Neutral
680	DDX55_HUMAN	E154G	Neutral	Neutral
681	DDX55_HUMAN	V101L	Neutral	Neutral
682	DDX55_HUMAN	N264S	Neutral	Neutral
683	DDX55_HUMAN	N556S	Neutral	Neutral
684	DEF_HUMAN	Q67E	Neutral	Neutral
685	DHB4_HUMAN	R106H	Neutral	Neutral
686	DHB4_HUMAN	W511R	Neutral	Neutral
687	DHB4_HUMAN	I559V	Neutral	Neutral
688	DHB4_HUMAN	T292S	Neutral	Neutral
689	DHDDS_HUMAN	V253M	Neutral	Neutral
690	DHPR_HUMAN	G17V	Disease	Disease
691	DHPR_HUMAN	G18D	Disease	Disease
692	DHPR_HUMAN	Q66R	Disease	Disease
693	DHPR_HUMAN	W108G	Disease	Neutral
694	DHPR_HUMAN	G17R	Disease	Disease
695	DHPR_HUMAN	P145L	Disease	Disease
696	DHPR_HUMAN	G23D	Disease	Disease
697	DHPR_HUMAN	L14P	Disease	Disease
698	DHPR_HUMAN	W36R	Disease	Disease
699	DHPR_HUMAN	S51T	Neutral	Disease
700	DHPR_HUMAN	L74P	Disease	Disease
701	DHX36_HUMAN	E151K	Neutral	Neutral

702	DHX36_HUMAN	I583N	Neutral	Neutral
703	DLG5_HUMAN	A1600V	Neutral	Neutral
704	DLG5_HUMAN	Q140R	Neutral	Neutral
705	DLG5_HUMAN	P1481Q	Neutral	Neutral
706	DLG7_HUMAN	G69E	Neutral	Neutral
707	DLX1_HUMAN	S136C	Neutral	Neutral
708	DNL4_HUMAN	G469E	Disease	Neutral
709	DNL4_HUMAN	P231S	Neutral	Neutral
710	DNL4_HUMAN	R278H	Disease	Neutral
711	DNL4_HUMAN	D62H	Neutral	Neutral
712	DNL4_HUMAN	L539F	Neutral	Neutral
713	DOK7_HUMAN	Q296R	Neutral	Neutral
714	DPOE1_HUMAN	A1712V	Neutral	Neutral
715	DPOE1_HUMAN	A2040V	Neutral	Neutral
716	DPOE1_HUMAN	E1577A	Neutral	Neutral
717	DPOE1_HUMAN	C1935Y	Neutral	Neutral
718	DPOE1_HUMAN	K1857R	Neutral	Neutral
719	DPOE1_HUMAN	R2165H	Neutral	Neutral
720	DPOLN_HUMAN	S502G	Neutral	Neutral
721	DPOLN_HUMAN	F711L	Neutral	Neutral
722	DPOLN_HUMAN	R425C	Neutral	Neutral
723	DPPA2_HUMAN	R131Q	Neutral	Neutral
724	DSC2_HUMAN	I776V	Neutral	Neutral
725	DSG4_HUMAN	I644L	Neutral	Neutral
726	DUOX1_HUMAN	C1026R	Neutral	Neutral
727	DUOX1_HUMAN	L1178F	Neutral	Neutral
728	DUOX2_HUMAN	R376W	Disease	Neutral
729	DUOX2_HUMAN	Q36H	Disease	Neutral
730	DUOX2_HUMAN	P138L	Neutral	Neutral
731	DUS1_HUMAN	A56T	Neutral	Neutral
732	DUS1_HUMAN	Y187H	Neutral	Neutral
733	DUS4L_HUMAN	R230Q	Neutral	Neutral
734	DUS6_HUMAN	V114L	Neutral	Neutral
735	DVL3_HUMAN	W433L	Neutral	Neutral
736	DYH5_HUMAN	L2862F	Neutral	Disease
737	DYH5_HUMAN	T4220A	Neutral	Neutral
738	DYH5_HUMAN	A4134V	Neutral	Neutral
739	DYH5_HUMAN	G3519R	Disease	Disease
740	DYH5_HUMAN	Q2463R	Neutral	Disease
741	DYH5_HUMAN	T3791I	Neutral	Disease
742	ECEL1_HUMAN	H328Y	Neutral	Neutral
743	EFG1_HUMAN	V215I	Neutral	Neutral
744	EFG1_HUMAN	N174S	Disease	Neutral
745	EFHC2_HUMAN	E208K	Neutral	Neutral
746	EGFL7_HUMAN	V153I	Neutral	Neutral
747	EHMT2_HUMAN	Y1165F	Neutral	Neutral
748	EME1_HUMAN	I350T	Neutral	Neutral

749	ENP3_HUMAN	E440D	Neutral	Neutral
750	ENP3_HUMAN	A496V	Neutral	Neutral
751	ENP3_HUMAN	L505F	Neutral	Neutral
752	ENPP6_HUMAN	S419G	Neutral	Neutral
753	EPHA1_HUMAN	R492Q	Neutral	Neutral
754	ERMAP_HUMAN	C259R	Neutral	Neutral
755	ERMAP_HUMAN	G263E	Neutral	Neutral
756	ES1_HUMAN	V148M	Neutral	Neutral
757	ES1_HUMAN	L248V	Neutral	Neutral
758	ES8L3_HUMAN	P356S	Neutral	Neutral
759	ES8L3_HUMAN	H293Y	Neutral	Neutral
760	ESF1_HUMAN	I550T	Neutral	Neutral
761	ETFB_HUMAN	T154M	Neutral	Neutral
762	ETFB_HUMAN	R164Q	Disease	Neutral
763	ETFB_HUMAN	D128N	Disease	Neutral
764	EXTL1_HUMAN	H379N	Neutral	Neutral
765	F105B_HUMAN	S227N	Neutral	Neutral
766	F18B2_HUMAN	D12A	Neutral	Neutral
767	FA46A_HUMAN	T313A	Neutral	Neutral
768	FA46D_HUMAN	D185E	Neutral	Neutral
769	FA71A_HUMAN	N22D	Neutral	Neutral
770	FAIM1_HUMAN	A117T	Neutral	Neutral
771	FAIM1_HUMAN	L127S	Neutral	Neutral
772	FAM5A_HUMAN	A437T	Neutral	Neutral
773	FBLN4_HUMAN	E57K	Disease	Neutral
774	FBX11_HUMAN	T126S	Neutral	Neutral
775	FBX38_HUMAN	S592P	Neutral	Neutral
776	FCGBP_HUMAN	V1340L	Neutral	Neutral
777	FCGBP_HUMAN	E2647K	Neutral	Neutral
778	FCGBP_HUMAN	H3920Q	Neutral	Neutral
779	FER_HUMAN	L439V	Neutral	Neutral
780	FIGN_HUMAN	K565R	Neutral	Neutral
781	FIGN_HUMAN	R448C	Neutral	Neutral
782	FLCN_HUMAN	R392G	Disease	Neutral
783	FLCN_HUMAN	A444S	Disease	Neutral
784	FLCN_HUMAN	A445T	Disease	Neutral
785	FLCN_HUMAN	R320Q	Disease	Neutral
786	FLCN_HUMAN	A238V	Disease	Neutral
787	FLCN_HUMAN	S79W	Disease	Neutral
788	FLOT2_HUMAN	A279T	Neutral	Neutral
789	FNBP1_HUMAN	S490N	Neutral	Neutral
790	FOLH1_HUMAN	V627L	Neutral	Disease
791	FOXR2_HUMAN	V286A	Neutral	Neutral
792	FRIL_HUMAN	A96T	Disease	Neutral
793	FRMD1_HUMAN	R274C	Neutral	Neutral
794	FYCO1_HUMAN	G321A	Neutral	Neutral
795	FYCO1_HUMAN	T381M	Neutral	Neutral

796	FYCO1_HUMAN	N1001D	Neutral	Neutral
797	FYV1_HUMAN	K1103R	Disease	Neutral
798	GAB1_HUMAN	P311L	Neutral	Neutral
799	GAMT_HUMAN	T209M	Neutral	Neutral
800	GBA3_HUMAN	D106N	Neutral	Neutral
801	GBP3_HUMAN	V469M	Neutral	Neutral
802	GBP3_HUMAN	V558A	Neutral	Neutral
803	GBP3_HUMAN	C491R	Neutral	Neutral
804	GCS1_HUMAN	D239N	Neutral	Neutral
805	GCS1_HUMAN	E236Q	Neutral	Neutral
806	GCS1_HUMAN	R486T	Disease	Neutral
807	GCS1_HUMAN	F652L	Disease	Neutral
808	GDE_HUMAN	E1343K	Neutral	Neutral
809	GDE_HUMAN	G1448R	Disease	Neutral
810	GDE_HUMAN	R1487G	Neutral	Neutral
811	GDE_HUMAN	R1253H	Neutral	Neutral
812	GDF1_HUMAN	A118V	Neutral	Neutral
813	GHRL_HUMAN	Q90L	Neutral	Neutral
814	GIPC2_HUMAN	L206P	Neutral	Neutral
815	GLE1_HUMAN	R590Q	Neutral	Disease
816	GLE1_HUMAN	G130D	Neutral	Disease
817	GLE1_HUMAN	I243V	Neutral	Disease
818	GLRA1_HUMAN	R299L	Disease	Neutral
819	GLRA1_HUMAN	R280H	Disease	Disease
820	GLRA1_HUMAN	K304E	Disease	Disease
821	GLRA1_HUMAN	R299Q	Disease	Disease
822	GLRA1_HUMAN	P278T	Disease	Disease
823	GLRA1_HUMAN	Y307C	Disease	Neutral
824	GLRA1_HUMAN	I272N	Disease	Neutral
825	GLRA1_HUMAN	Q294H	Disease	Disease
826	GLU2B_HUMAN	S74N	Neutral	Neutral
827	GNPTA_HUMAN	I348L	Neutral	Neutral
828	GNPTA_HUMAN	D407A	Disease	Neutral
829	GO45_HUMAN	Q40R	Neutral	Neutral
830	GP113_HUMAN	A404T	Neutral	Neutral
831	GP115_HUMAN	N541K	Neutral	Disease
832	GP126_HUMAN	K230Q	Neutral	Neutral
833	GPC6A_HUMAN	P91S	Neutral	Neutral
834	GPR1_HUMAN	I307V	Neutral	Neutral
835	GPR55_HUMAN	G195V	Neutral	Neutral
836	GPR81_HUMAN	D253E	Neutral	Neutral
837	GPR81_HUMAN	H43Q	Neutral	Neutral
838	GPR98_HUMAN	N1985D	Neutral	Neutral
839	GPR98_HUMAN	P1987L	Neutral	Neutral
840	GPR98_HUMAN	L1093F	Neutral	Neutral
841	GPR98_HUMAN	S2764L	Neutral	Neutral
842	GPR98_HUMAN	G2379A	Neutral	Neutral

843	GPR98_HUMAN	R249K	Neutral	Neutral
844	GPR98_HUMAN	V195II	Neutral	Neutral
845	GPR98_HUMAN	L2004F	Neutral	Neutral
846	GPR98_HUMAN	N2584S	Neutral	Neutral
847	GPR98_HUMAN	N2345S	Neutral	Neutral
848	GPR98_HUMAN	Y2232C	Neutral	Neutral
849	GPR98_HUMAN	T1927M	Neutral	Neutral
850	GRHL3_HUMAN	D55E	Neutral	Neutral
851	GRIA3_HUMAN	F525L	Neutral	Disease
852	GTR10_HUMAN	A206T	Neutral	Neutral
853	GTR10_HUMAN	S81R	Disease	Disease
854	GTR10_HUMAN	A106S	Neutral	Disease
855	GUC1B_HUMAN	D154E	Neutral	Neutral
856	GUF1_HUMAN	T329I	Neutral	Neutral
857	GUF1_HUMAN	L58P	Neutral	Neutral
858	GZF1_HUMAN	Q275P	Neutral	Neutral
859	HAIR_HUMAN	D1012N	Disease	Neutral
860	HAIR_HUMAN	T1022A	Disease	Neutral
861	HAIR_HUMAN	V1136D	Disease	Neutral
862	HAIR_HUMAN	R620Q	Neutral	Neutral
863	HAIR_HUMAN	P924L	Neutral	Neutral
864	HCDH_HUMAN	A40T	Disease	Neutral
865	HCDH_HUMAN	P258L	Disease	Neutral
866	HCDH_HUMAN	D57E	Disease	Neutral
867	HELI_HUMAN	N93S	Neutral	Neutral
868	HERPU_HUMAN	R50H	Neutral	Neutral
869	HGFA_HUMAN	R644Q	Neutral	Neutral
870	HGFA_HUMAN	R509H	Neutral	Neutral
871	HNRL1_HUMAN	G91C	Neutral	Neutral
872	HNRPF_HUMAN	K87R	Neutral	Neutral
873	HSP71_HUMAN	N499S	Neutral	Neutral
874	HTRA2_HUMAN	G399S	Disease	Neutral
875	HUS1_HUMAN	Q147K	Neutral	Neutral
876	HUS1_HUMAN	D221E	Neutral	Neutral
877	HXA13_HUMAN	Q371L	Disease	Neutral
878	HXA13_HUMAN	N372H	Disease	Neutral
879	HYAL1_HUMAN	E268K	Disease	Neutral
880	I17RD_HUMAN	V301M	Neutral	Neutral
881	ICAM2_HUMAN	A37T	Neutral	Neutral
882	ICAM2_HUMAN	R199H	Neutral	Neutral
883	IDUA_HUMAN	P533R	Disease	Disease
884	IDUA_HUMAN	A79V	Disease	Neutral
885	IDUA_HUMAN	G116R	Neutral	Disease
886	IDUA_HUMAN	L218P	Disease	Disease
887	IDUA_HUMAN	A361T	Neutral	Disease
888	IDUA_HUMAN	M504T	Disease	Disease
889	IDUA_HUMAN	R89W	Disease	Disease

890	IDUA_HUMAN	R89Q	Disease	Neutral
891	IDUA_HUMAN	M133I	Disease	Neutral
892	IDUA_HUMAN	R363C	Disease	Disease
893	IDUA_HUMAN	P496L	Disease	Disease
894	IDUA_HUMAN	R383H	Disease	Disease
895	IDUA_HUMAN	T388R	Disease	Disease
896	IDUA_HUMAN	L238Q	Disease	Disease
897	IDUA_HUMAN	V279A	Neutral	Disease
898	IDUA_HUMAN	H82P	Disease	Disease
899	IDUA_HUMAN	S260F	Disease	Disease
900	IDUA_HUMAN	E182K	Disease	Disease
901	IDUA_HUMAN	G208D	Disease	Disease
902	IDUA_HUMAN	T366P	Disease	Disease
903	IDUA_HUMAN	A75T	Disease	Disease
904	IF3A_HUMAN	E386K	Neutral	Neutral
905	IF5A2_HUMAN	E42D	Neutral	Neutral
906	IGSF2_HUMAN	N225S	Neutral	Neutral
907	IGSF2_HUMAN	S525R	Neutral	Neutral
908	IGSF2_HUMAN	R518Q	Neutral	Neutral
909	ILRL1_HUMAN	A78E	Neutral	Neutral
910	ILRL2_HUMAN	L550P	Neutral	Neutral
911	ILRL2_HUMAN	V352I	Neutral	Neutral
912	IMB3_HUMAN	E525K	Neutral	Neutral
913	IMB3_HUMAN	T969I	Neutral	Neutral
914	IMB3_HUMAN	E549K	Neutral	Neutral
915	IMB3_HUMAN	Y905C	Neutral	Neutral
916	IMB3_HUMAN	L286I	Neutral	Neutral
917	IMPG1_HUMAN	H518D	Neutral	Neutral
918	INHBC_HUMAN	R322Q	Neutral	Neutral
919	INT7_HUMAN	H425R	Neutral	Neutral
920	IRK11_HUMAN	R201C	Disease	Disease
921	IRK11_HUMAN	F35V	Disease	Disease
922	IRK11_HUMAN	Y330C	Disease	Disease
923	IRK11_HUMAN	E10K	Neutral	Disease
924	IRK11_HUMAN	R201H	Disease	Disease
925	IRK11_HUMAN	W91R	Disease	Disease
926	IRK11_HUMAN	F35L	Disease	Disease
927	IRK11_HUMAN	L147P	Disease	Disease
928	IRK11_HUMAN	R195H	Neutral	Disease
929	IRK11_HUMAN	E322K	Disease	Disease
930	IRK11_HUMAN	L355P	Disease	Disease
931	IRK11_HUMAN	I296L	Disease	Disease
932	IRK11_HUMAN	I182V	Disease	Disease
933	IRK11_HUMAN	L270V	Neutral	Disease
934	IRK11_HUMAN	K170R	Disease	Disease
935	IRK11_HUMAN	K170N	Disease	Disease
936	IRK11_HUMAN	F333I	Disease	Disease

937	IRK11_HUMAN	P254L	Disease	Disease
938	IRK15_HUMAN	M30L	Neutral	Neutral
939	IRK15_HUMAN	G98D	Neutral	Neutral
940	IRK16_HUMAN	I11V	Neutral	Neutral
941	ITAV_HUMAN	I405V	Neutral	Neutral
942	JAD1C_HUMAN	A388P	Disease	Disease
943	JAD1C_HUMAN	D402Y	Disease	Disease
944	JAG2_HUMAN	E501K	Neutral	Neutral
945	JHD3B_HUMAN	N29T	Neutral	Neutral
946	K0020_HUMAN	R289P	Neutral	Neutral
947	K0020_HUMAN	V297L	Neutral	Neutral
948	K0100_HUMAN	V1516G	Neutral	Neutral
949	K0100_HUMAN	H986Q	Neutral	Neutral
950	K0141_HUMAN	A247T	Neutral	Neutral
951	K0141_HUMAN	A95T	Neutral	Neutral
952	K0141_HUMAN	F128L	Neutral	Neutral
953	K0241_HUMAN	C257S	Neutral	Neutral
954	K0319_HUMAN	A311T	Disease	Neutral
955	K0372_HUMAN	R1296S	Neutral	Neutral
956	K0423_HUMAN	E416Q	Neutral	Neutral
957	K0423_HUMAN	L511V	Neutral	Neutral
958	K1196_HUMAN	M372V	Neutral	Neutral
959	K1196_HUMAN	A453T	Neutral	Neutral
960	K1267_HUMAN	P1010L	Neutral	Neutral
961	K1333_HUMAN	R232H	Neutral	Neutral
962	K1666_HUMAN	R1419C	Neutral	Neutral
963	K1794_HUMAN	Q686K	Neutral	Neutral
964	K1C20_HUMAN	S129N	Neutral	Neutral
965	K1C9_HUMAN	M157V	Disease	Disease
966	K1C9_HUMAN	R163Q	Disease	Disease
967	K1C9_HUMAN	N161Y	Disease	Disease
968	K1C9_HUMAN	L168S	Disease	Disease
969	K1C9_HUMAN	N161S	Disease	Disease
970	K1C9_HUMAN	L160V	Disease	Disease
971	K1C9_HUMAN	N161K	Disease	Disease
972	K1C9_HUMAN	Q172P	Disease	Disease
973	K1C9_HUMAN	R163W	Disease	Disease
974	K1C9_HUMAN	M157T	Disease	Disease
975	KBTB4_HUMAN	D330N	Neutral	Neutral
976	KCD15_HUMAN	G64S	Neutral	Neutral
977	KCNV2_HUMAN	W188C	Disease	Neutral
978	KCNV2_HUMAN	L126Q	Disease	Neutral
979	KCNV2_HUMAN	L533V	Neutral	Neutral
980	KCNV2_HUMAN	S256W	Disease	Neutral
981	KCNV2_HUMAN	A259V	Disease	Neutral
982	KCNV2_HUMAN	G459D	Disease	Neutral
983	KCP2_HUMAN	G32V	Neutral	Neutral

984	KCRB_HUMAN	K177R	Neutral	Neutral
985	KCRB_HUMAN	S309L	Neutral	Neutral
986	KDEL1_HUMAN	I114V	Neutral	Neutral
987	KIF1B_HUMAN	Q98L	Disease	Neutral
988	KIFC3_HUMAN	G391V	Neutral	Neutral
989	KLF17_HUMAN	N156S	Neutral	Neutral
990	KLH26_HUMAN	V542M	Neutral	Neutral
991	KLK11_HUMAN	R166C	Neutral	Neutral
992	KLK11_HUMAN	G49E	Neutral	Neutral
993	KLRB1_HUMAN	I168T	Neutral	Neutral
994	KNTC2_HUMAN	E348D	Neutral	Neutral
995	KNTC2_HUMAN	A605P	Neutral	Neutral
996	KNTC2_HUMAN	S66A	Neutral	Neutral
997	KPB1_HUMAN	D299V	Disease	Neutral
998	KRIT1_HUMAN	K569E	Disease	Neutral
999	L2HDH_HUMAN	H98R	Disease	Neutral
1000	L2HDH_HUMAN	G57R	Disease	Neutral
1001	L2HDH_HUMAN	H98Y	Disease	Disease
1002	L2HDH_HUMAN	E176D	Disease	Neutral
1003	L2HDH_HUMAN	Y178F	Neutral	Neutral
1004	L2HDH_HUMAN	P302L	Disease	Neutral
1005	L2HDH_HUMAN	G55D	Disease	Neutral
1006	L2HDH_HUMAN	K81E	Disease	Neutral
1007	LAIR1_HUMAN	E63D	Neutral	Neutral
1008	LAMA4_HUMAN	P1119R	Neutral	Neutral
1009	LAMC2_HUMAN	D247E	Neutral	Neutral
1010	LAMC2_HUMAN	S733T	Neutral	Neutral
1011	LARG2_HUMAN	R677C	Neutral	Neutral
1012	LAYN_HUMAN	E66K	Neutral	Neutral
1013	LBP_HUMAN	V166M	Neutral	Neutral
1014	LBP_HUMAN	L125I	Neutral	Neutral
1015	LBP_HUMAN	P333L	Neutral	Neutral
1016	LBP_HUMAN	H294R	Neutral	Neutral
1017	LBP_HUMAN	M242I	Neutral	Neutral
1018	LBP_HUMAN	L339F	Neutral	Neutral
1019	LBP_HUMAN	D283G	Neutral	Neutral
1020	LCTL_HUMAN	A240T	Neutral	Neutral
1021	LDB3_HUMAN	V55I	Neutral	Neutral
1022	LDB3_HUMAN	S189L	Disease	Neutral
1023	LDB3_HUMAN	V635I	Neutral	Neutral
1024	LDB3_HUMAN	T206I	Disease	Neutral
1025	LDB3_HUMAN	D673N	Disease	Neutral
1026	LDB3_HUMAN	I345M	Disease	Neutral
1027	LDHD_HUMAN	R233K	Neutral	Neutral
1028	LECT1_HUMAN	V175I	Neutral	Neutral
1029	LEFTB_HUMAN	D322A	Neutral	Neutral
1030	LFNG_HUMAN	F188L	Disease	Neutral

1031	LIPB1_HUMAN	V148L	Neutral	Neutral
1032	LIPS_HUMAN	N499H	Neutral	Neutral
1033	LIPS_HUMAN	R938S	Neutral	Neutral
1034	LIPS_HUMAN	K497N	Neutral	Neutral
1035	LMTK1_HUMAN	T118M	Neutral	Neutral
1036	LMTK2_HUMAN	D1061N	Neutral	Neutral
1037	LNK2_HUMAN	S198P	Neutral	Neutral
1038	LPK_HUMAN	N1639S	Neutral	Neutral
1039	LPK_HUMAN	Q268H	Disease	Neutral
1040	LPK_HUMAN	V219I	Neutral	Neutral
1041	LPK_HUMAN	G1363S	Disease	Neutral
1042	LPIN2_HUMAN	S734L	Disease	Neutral
1043	LRC18_HUMAN	G7V	Neutral	Neutral
1044	LRC18_HUMAN	R31H	Neutral	Neutral
1045	LRC8B_HUMAN	Q419K	Neutral	Neutral
1046	LRFN4_HUMAN	V340A	Neutral	Neutral
1047	LY75_HUMAN	D884A	Neutral	Neutral
1048	LY75_HUMAN	D807E	Neutral	Neutral
1049	LY75_HUMAN	E268D	Neutral	Neutral
1050	LY75_HUMAN	K486M	Neutral	Neutral
1051	LY75_HUMAN	D692N	Neutral	Neutral
1052	LYPL1_HUMAN	I131M	Neutral	Neutral
1053	LYSM2_HUMAN	S164F	Neutral	Neutral
1054	LYSM2_HUMAN	I107V	Neutral	Neutral
1055	LYZL6_HUMAN	F139S	Neutral	Neutral
1056	MAGB2_HUMAN	G318R	Neutral	Neutral
1057	MANBA_HUMAN	V253I	Neutral	Neutral
1058	MANBA_HUMAN	T701M	Neutral	Neutral
1059	MAP7_HUMAN	R558W	Neutral	Neutral
1060	MASP2_HUMAN	H155R	Neutral	Neutral
1061	MASP2_HUMAN	R439H	Neutral	Neutral
1062	MASP2_HUMAN	V377A	Neutral	Neutral
1063	MCA2_HUMAN	A129G	Neutral	Neutral
1064	MCCA_HUMAN	R385S	Disease	Neutral
1065	MCCA_HUMAN	S535F	Disease	Neutral
1066	MCCA_HUMAN	L437P	Disease	Neutral
1067	MCCA_HUMAN	M325R	Disease	Neutral
1068	MCCA_HUMAN	D532H	Disease	Neutral
1069	MCCA_HUMAN	A289V	Disease	Neutral
1070	MCL1_HUMAN	E173D	Neutral	Neutral
1071	MCL1_HUMAN	A227V	Neutral	Neutral
1072	MDM4_HUMAN	I175T	Neutral	Neutral
1073	MDM4_HUMAN	T406I	Neutral	Neutral
1074	MDN1_HUMAN	S1559N	Neutral	Neutral
1075	METL4_HUMAN	L163F	Neutral	Neutral
1076	MFNG_HUMAN	R302C	Neutral	Neutral
1077	MGAT1_HUMAN	R223Q	Neutral	Neutral

1078	MGR1_HUMAN	V929I	Neutral	Neutral
1079	MGR1_HUMAN	E741D	Neutral	Neutral
1080	MGR1_HUMAN	G884E	Neutral	Neutral
1081	MIRO2_HUMAN	R245Q	Neutral	Neutral
1082	MIRO2_HUMAN	R425C	Neutral	Neutral
1083	MK67I_HUMAN	P144Q	Neutral	Neutral
1084	MKS3_HUMAN	Q376P	Disease	Neutral
1085	MLZE_HUMAN	R150K	Neutral	Neutral
1086	MLZE_HUMAN	P23S	Neutral	Neutral
1087	MMAC_HUMAN	R206W	Disease	Neutral
1088	MMAC_HUMAN	R189S	Disease	Neutral
1089	MMAC_HUMAN	Y130H	Disease	Neutral
1090	MMAC_HUMAN	Q27R	Disease	Neutral
1091	MMAC_HUMAN	L193P	Disease	Neutral
1092	MMAC_HUMAN	G147D	Disease	Neutral
1093	MMAC_HUMAN	H122R	Disease	Neutral
1094	MMAC_HUMAN	R206P	Disease	Neutral
1095	MMAC_HUMAN	G156D	Disease	Neutral
1096	MMAC_HUMAN	R161G	Disease	Neutral
1097	MMAC_HUMAN	L116P	Disease	Neutral
1098	MMAC_HUMAN	W157C	Disease	Neutral
1099	MMAC_HUMAN	G147A	Disease	Neutral
1100	MMAC_HUMAN	R161Q	Disease	Neutral
1101	MMEL1_HUMAN	M518T	Neutral	Neutral
1102	MMP37_HUMAN	N116S	Neutral	Neutral
1103	MOCOS_HUMAN	A57P	Disease	Neutral
1104	MOCOS_HUMAN	H703N	Neutral	Neutral
1105	MOCOS_HUMAN	D495N	Neutral	Neutral
1106	MOCOS_HUMAN	S120N	Neutral	Neutral
1107	MOCOS_HUMAN	T294I	Disease	Neutral
1108	MOGT1_HUMAN	S162P	Neutral	Neutral
1109	MOK_HUMAN	Q398R	Neutral	Neutral
1110	MOT8_HUMAN	L397P	Disease	Neutral
1111	MOT8_HUMAN	L438P	Disease	Neutral
1112	MPIP3_HUMAN	R70C	Neutral	Neutral
1113	MPIP3_HUMAN	S78N	Neutral	Neutral
1114	MPIP3_HUMAN	S14N	Neutral	Neutral
1115	MPIP3_HUMAN	G297R	Neutral	Neutral
1116	MRCKB_HUMAN	I1077V	Neutral	Neutral
1117	MRP9_HUMAN	A102E	Neutral	Neutral
1118	MRP9_HUMAN	F1349L	Neutral	Neutral
1119	MRP9_HUMAN	I9L	Neutral	Neutral
1120	MRP9_HUMAN	T989S	Neutral	Neutral
1121	MRP9_HUMAN	Y1013H	Neutral	Neutral
1122	MRP9_HUMAN	E1191A	Neutral	Neutral
1123	MRP9_HUMAN	K894M	Neutral	Neutral
1124	MSLN_HUMAN	R309P	Neutral	Neutral

1125	MSTRO_HUMAN	R39S	Neutral	Neutral
1126	MTER2_HUMAN	M189T	Neutral	Neutral
1127	MTERF_HUMAN	A294T	Neutral	Neutral
1128	MUS81_HUMAN	R37H	Neutral	Neutral
1129	MUS81_HUMAN	Q481H	Neutral	Neutral
1130	MUS81_HUMAN	L189F	Neutral	Neutral
1131	MXI1_HUMAN	E152A	Disease	Neutral
1132	MYBPH_HUMAN	A114G	Neutral	Neutral
1133	MYBPH_HUMAN	Q48H	Neutral	Neutral
1134	MYBPH_HUMAN	A49G	Neutral	Neutral
1135	MYPC3_HUMAN	D228N	Disease	Disease
1136	MYPC3_HUMAN	R833T	Disease	Disease
1137	MYPC3_HUMAN	V219L	Disease	Disease
1138	MYPC3_HUMAN	R667H	Disease	Disease
1139	MYPC3_HUMAN	R326Q	Disease	Neutral
1140	MYPC3_HUMAN	H257P	Disease	Disease
1141	MYPC3_HUMAN	R732C	Disease	Disease
1142	MYPC3_HUMAN	W791R	Disease	Disease
1143	MYPC3_HUMAN	R1001W	Neutral	Disease
1144	MYPC3_HUMAN	L544M	Neutral	Disease
1145	MYPC3_HUMAN	Y237S	Disease	Disease
1146	MYPC3_HUMAN	R809H	Disease	Disease
1147	MYPC3_HUMAN	S236G	Disease	Disease
1148	MYPC3_HUMAN	F1112I	Disease	Disease
1149	MYPC3_HUMAN	K810R	Disease	Disease
1150	MYPC3_HUMAN	P872H	Disease	Disease
1151	MYPC3_HUMAN	D603V	Disease	Disease
1152	MYPC3_HUMAN	A521T	Neutral	Disease
1153	MYPC3_HUMAN	L352P	Disease	Disease
1154	MYPC3_HUMAN	R494Q	Disease	Disease
1155	MYPC3_HUMAN	I1130T	Disease	Disease
1156	MYPC3_HUMAN	A1254T	Disease	Disease
1157	MYPC3_HUMAN	A832T	Disease	Disease
1158	MYPC3_HUMAN	V256I	Disease	Disease
1159	MYPC3_HUMAN	A1193T	Disease	Disease
1160	MYPC3_HUMAN	E258K	Disease	Disease
1161	MYPC3_HUMAN	G415S	Neutral	Disease
1162	MYPC3_HUMAN	N754K	Disease	Disease
1163	MYPC3_HUMAN	V158M	Neutral	Disease
1164	MYPC3_HUMAN	R501Q	Disease	Disease
1165	MYPC3_HUMAN	Q997R	Disease	Disease
1166	MYPC3_HUMAN	V189I	Neutral	Disease
1167	MYPC3_HUMAN	V1114I	Disease	Disease
1168	MYPC3_HUMAN	E450Q	Disease	Disease
1169	MYPC3_HUMAN	G506R	Disease	Disease
1170	MYPC3_HUMAN	P1002Q	Disease	Disease
1171	MYPC3_HUMAN	R653H	Disease	Disease

1172	MYPC3_HUMAN	G489R	Disease	Disease
1173	MYPC3_HUMAN	D604N	Disease	Disease
1174	MYPC3_HUMAN	R667P	Disease	Disease
1175	MYPC3_HUMAN	R457H	Disease	Disease
1176	MYPC3_HUMAN	D769N	Disease	Disease
1177	MYPC3_HUMAN	P161S	Disease	Disease
1178	MYPC3_HUMAN	N947T	Disease	Disease
1179	MYPC3_HUMAN	G5R	Disease	Disease
1180	MYPC3_HUMAN	Q997E	Disease	Disease
1181	MYPC3_HUMAN	T59A	Disease	Disease
1182	MYPC3_HUMAN	A832V	Disease	Disease
1183	MYPC3_HUMAN	R1047C	Neutral	Disease
1184	MYPC3_HUMAN	R1001Q	Disease	Disease
1185	MYPC3_HUMAN	G522W	Disease	Disease
1186	MYPC3_HUMAN	R819Q	Disease	Disease
1187	MYPC3_HUMAN	C565R	Disease	Disease
1188	MYPC3_HUMAN	E541Q	Disease	Disease
1189	MYPC3_HUMAN	R833W	Disease	Disease
1190	MYPC3_HUMAN	R501W	Disease	Disease
1191	MYPC3_HUMAN	V895M	Disease	Disease
1192	MYPC3_HUMAN	P607L	Disease	Disease
1193	MYPN_HUMAN	S803R	Neutral	Neutral
1194	MYPN_HUMAN	S691N	Neutral	Neutral
1195	MYPN_HUMAN	S707N	Neutral	Neutral
1196	NBN_HUMAN	Q216K	Neutral	Neutral
1197	NBN_HUMAN	E185Q	Neutral	Neutral
1198	NBN_HUMAN	K105N	Neutral	Neutral
1199	NBN_HUMAN	T497A	Neutral	Neutral
1200	NBN_HUMAN	I171V	Disease	Neutral
1201	NBN_HUMAN	R215W	Neutral	Neutral
1202	NBN_HUMAN	D95N	Disease	Neutral
1203	NBN_HUMAN	L150F	Disease	Neutral
1204	NBN_HUMAN	V210F	Neutral	Neutral
1205	NBN_HUMAN	S93L	Disease	Neutral
1206	NBN_HUMAN	P266L	Neutral	Neutral
1207	NBN_HUMAN	L574I	Neutral	Neutral
1208	NC6IP_HUMAN	F754C	Neutral	Neutral
1209	NC6IP_HUMAN	I511T	Neutral	Neutral
1210	NC6IP_HUMAN	I160V	Neutral	Neutral
1211	NC6IP_HUMAN	V576I	Neutral	Neutral
1212	NCKX5_HUMAN	T111A	Neutral	Neutral
1213	NCOA2_HUMAN	M1282I	Neutral	Neutral
1214	NCOA7_HUMAN	D942E	Neutral	Neutral
1215	NCOAT_HUMAN	E602K	Neutral	Neutral
1216	NCOAT_HUMAN	G46E	Neutral	Neutral
1217	NDUS1_HUMAN	V649F	Neutral	Neutral
1218	NDUS1_HUMAN	R241Q	Neutral	Neutral

1219	NEC1_HUMAN	R80Q	Neutral	Neutral
1220	NEC1_HUMAN	N221D	Neutral	Neutral
1221	NEC1_HUMAN	Q665E	Neutral	Neutral
1222	NEC1_HUMAN	G483R	Disease	Disease
1223	NEC1_HUMAN	S690T	Neutral	Neutral
1224	NEK9_HUMAN	R429H	Neutral	Neutral
1225	NEO1_HUMAN	P534L	Neutral	Neutral
1226	NEUL_HUMAN	P704S	Neutral	Neutral
1227	NFASC_HUMAN	T159M	Neutral	Neutral
1228	NFH_HUMAN	E811A	Neutral	Neutral
1229	NFKB2_HUMAN	G351R	Neutral	Neutral
1230	NGLY1_HUMAN	Q591R	Neutral	Neutral
1231	NGLY1_HUMAN	V581I	Neutral	Neutral
1232	NHEJ1_HUMAN	C123R	Disease	Neutral
1233	NID1_HUMAN	Q669R	Neutral	Neutral
1234	NMUR2_HUMAN	S298T	Neutral	Neutral
1235	NMUR2_HUMAN	F315L	Neutral	Neutral
1236	NOC3L_HUMAN	E472A	Neutral	Neutral
1237	NOC3L_HUMAN	P194L	Neutral	Neutral
1238	NOMO2_HUMAN	V580M	Neutral	Neutral
1239	NOP56_HUMAN	M475T	Neutral	Neutral
1240	NOP56_HUMAN	I121V	Neutral	Neutral
1241	NOTC2_HUMAN	C444Y	Disease	Neutral
1242	NPAL1_HUMAN	I324V	Neutral	Neutral
1243	NPAS2_HUMAN	S471L	Neutral	Neutral
1244	NPSR1_HUMAN	R122Q	Neutral	Neutral
1245	NPSR1_HUMAN	T212I	Neutral	Neutral
1246	NPSR1_HUMAN	N107I	Neutral	Neutral
1247	NPSR1_HUMAN	I315T	Neutral	Neutral
1248	NPSR1_HUMAN	S143G	Neutral	Neutral
1249	NPSR1_HUMAN	C197F	Neutral	Neutral
1250	NPSR1_HUMAN	S241R	Neutral	Neutral
1251	NPT2A_HUMAN	V147M	Disease	Neutral
1252	NPT2A_HUMAN	A48F	Disease	Neutral
1253	NPT2C_HUMAN	G337S	Neutral	Neutral
1254	NPT2C_HUMAN	A413E	Disease	Disease
1255	NPT2C_HUMAN	R468W	Disease	Disease
1256	NPT2C_HUMAN	R353L	Disease	Disease
1257	NPT4_HUMAN	A100T	Neutral	Neutral
1258	NRAP_HUMAN	V208A	Neutral	Neutral
1259	NRAP_HUMAN	A344T	Neutral	Neutral
1260	NRAP_HUMAN	L1531P	Neutral	Neutral
1261	NRAP_HUMAN	Y249C	Neutral	Neutral
1262	NRAP_HUMAN	Q360R	Neutral	Neutral
1263	NSD3_HUMAN	R383P	Neutral	Neutral
1264	NSN5C_HUMAN	W47S	Neutral	Neutral
1265	NSN5C_HUMAN	A90V	Neutral	Neutral

1266	NUCB1_HUMAN	R399Q	Neutral	Neutral
1267	NUCB2_HUMAN	Q338E	Neutral	Neutral
1268	NUF2_HUMAN	S239R	Neutral	Neutral
1269	NUF2_HUMAN	S229L	Neutral	Neutral
1270	NUP88_HUMAN	N289S	Neutral	Neutral
1271	O10A4_HUMAN	R262Q	Neutral	Neutral
1272	O10G7_HUMAN	T5S	Neutral	Neutral
1273	O10Q1_HUMAN	E12D	Neutral	Neutral
1274	O11H6_HUMAN	L32V	Neutral	Neutral
1275	O51I1_HUMAN	A252S	Neutral	Neutral
1276	O51Q1_HUMAN	V211M	Neutral	Neutral
1277	O52D1_HUMAN	I251T	Neutral	Neutral
1278	O52E4_HUMAN	R184M	Neutral	Neutral
1279	O52E4_HUMAN	V176I	Neutral	Neutral
1280	O52N1_HUMAN	R167C	Neutral	Neutral
1281	O5AN1_HUMAN	L289F	Neutral	Neutral
1282	OR5A1_HUMAN	D183N	Neutral	Neutral
1283	OR5I1_HUMAN	F76S	Neutral	Neutral
1284	OR6X1_HUMAN	T190N	Neutral	Neutral
1285	OR7C2_HUMAN	T118M	Neutral	Neutral
1286	OR8D1_HUMAN	L194P	Neutral	Neutral
1287	OR8D4_HUMAN	R298K	Neutral	Neutral
1288	OR8D4_HUMAN	L283P	Neutral	Neutral
1289	OR8D4_HUMAN	F200L	Neutral	Neutral
1290	OR8D4_HUMAN	R133K	Neutral	Neutral
1291	OR8H3_HUMAN	I201V	Neutral	Neutral
1292	OR8K3_HUMAN	L122R	Neutral	Neutral
1293	ORC1_HUMAN	A372V	Neutral	Neutral
1294	ORC1_HUMAN	Q180H	Neutral	Neutral
1295	ORC1_HUMAN	T466M	Neutral	Neutral
1296	ORC1_HUMAN	R441M	Neutral	Neutral
1297	ORC1_HUMAN	C469Y	Neutral	Neutral
1298	ORC1_HUMAN	K456E	Neutral	Neutral
1299	ORC1_HUMAN	V190M	Neutral	Neutral
1300	ORC1_HUMAN	R19S	Neutral	Neutral
1301	ORCT2_HUMAN	S233F	Disease	Disease
1302	OSCP1_HUMAN	K232E	Neutral	Neutral
1303	OSMR_HUMAN	G210W	Neutral	Neutral
1304	OSMR_HUMAN	D553N	Neutral	Neutral
1305	OSMR_HUMAN	E527K	Neutral	Neutral
1306	OTC_HUMAN	N161S	Disease	Disease
1307	OTC_HUMAN	I159T	Disease	Disease
1308	OTC_HUMAN	I160S	Disease	Disease
1309	OTC_HUMAN	H302L	Disease	Disease
1310	OTC_HUMAN	Y176C	Disease	Disease
1311	OTC_HUMAN	S340P	Disease	Disease
1312	OTC_HUMAN	Q180H	Disease	Disease

1313	OTC_HUMAN	C303Y	Disease	Disease
1314	OTC_HUMAN	R277W	Disease	Disease
1315	OTC_HUMAN	P305H	Disease	Disease
1316	OTC_HUMAN	D263N	Disease	Disease
1317	OTC_HUMAN	R330G	Disease	Disease
1318	OTC_HUMAN	T333A	Neutral	Disease
1319	OTC_HUMAN	F354C	Disease	Disease
1320	OTC_HUMAN	I172M	Disease	Disease
1321	OTC_HUMAN	W265L	Disease	Disease
1322	OTC_HUMAN	L244Q	Disease	Disease
1323	OTC_HUMAN	Y345D	Disease	Disease
1324	OTC_HUMAN	Q270R	Neutral	Disease
1325	OTC_HUMAN	V337L	Disease	Disease
1326	OTC_HUMAN	T247K	Disease	Disease
1327	OTC_HUMAN	P225R	Disease	Disease
1328	OTC_HUMAN	L301F	Disease	Disease
1329	OTC_HUMAN	L139S	Disease	Disease
1330	OTC_HUMAN	H302Y	Disease	Disease
1331	OTC_HUMAN	H168R	Disease	Disease
1332	OTC_HUMAN	P225L	Disease	Disease
1333	OTC_HUMAN	D263G	Disease	Disease
1334	OTC_HUMAN	G269E	Disease	Disease
1335	OTC_HUMAN	A174P	Disease	Disease
1336	OTC_HUMAN	L304F	Disease	Disease
1337	OTC_HUMAN	H302Q	Disease	Disease
1338	OTC_HUMAN	H255P	Disease	Disease
1339	OTC_HUMAN	R141P	Disease	Disease
1340	OTC_HUMAN	L341P	Disease	Disease
1341	OTC_HUMAN	T264A	Disease	Disease
1342	OTC_HUMAN	T343K	Disease	Disease
1343	OTC_HUMAN	H168Q	Disease	Disease
1344	OTC_HUMAN	C303R	Disease	Disease
1345	OTC_HUMAN	R320L	Disease	Disease
1346	OTC_HUMAN	S267R	Disease	Disease
1347	OTC_HUMAN	L148F	Disease	Disease
1348	OTC_HUMAN	R277Q	Disease	Disease
1349	OTC_HUMAN	T178M	Disease	Disease
1350	OTC_HUMAN	M268T	Disease	Disease
1351	OTC_HUMAN	T242I	Disease	Disease
1352	OTC_HUMAN	A140P	Disease	Disease
1353	OTC_HUMAN	T262K	Disease	Disease
1354	OTC_HUMAN	I172F	Disease	Disease
1355	OTC_HUMAN	T264I	Disease	Disease
1356	OTC_HUMAN	V339L	Disease	Disease
1357	OTC_HUMAN	E326K	Disease	Disease
1358	OTC_HUMAN	Y345C	Disease	Disease
1359	OTC_HUMAN	R141Q	Disease	Disease

1360	OTC_HUMAN	P225T	Disease	Disease
1361	OTC_HUMAN	G162R	Disease	Disease
1362	OTC_HUMAN	A336S	Disease	Disease
1363	OTC_HUMAN	D175V	Disease	Disease
1364	OTOF_HUMAN	P1646S	Neutral	Disease
1365	OTOF_HUMAN	R818W	Neutral	Disease
1366	OTOF_HUMAN	R1680H	Neutral	Neutral
1367	OTOR_HUMAN	L31P	Neutral	Neutral
1368	OTUD4_HUMAN	A194G	Neutral	Neutral
1369	OTX2_HUMAN	P134A	Disease	Neutral
1370	OTX2_HUMAN	R89G	Disease	Neutral
1371	OTX2_HUMAN	P133T	Disease	Neutral
1372	OVCH2_HUMAN	N410T	Neutral	Neutral
1373	OVCH2_HUMAN	T539I	Neutral	Neutral
1374	OVCH2_HUMAN	G381E	Neutral	Neutral
1375	OVCH2_HUMAN	P292S	Neutral	Neutral
1376	OVCH2_HUMAN	R19Q	Neutral	Neutral
1377	OX2G_HUMAN	P46T	Neutral	Neutral
1378	OXR1_HUMAN	K427R	Neutral	Neutral
1379	P2RX4_HUMAN	S242G	Neutral	Neutral
1380	P2Y12_HUMAN	R256Q	Disease	Neutral
1381	P2Y12_HUMAN	R265W	Disease	Neutral
1382	P85A_HUMAN	E451K	Neutral	Neutral
1383	P85A_HUMAN	M326I	Neutral	Neutral
1384	P85A_HUMAN	R409Q	Disease	Neutral
1385	PACS2_HUMAN	T185A	Neutral	Neutral
1386	PAR4_HUMAN	P310L	Neutral	Neutral
1387	PAR4_HUMAN	A120T	Neutral	Neutral
1388	PAR4_HUMAN	R215Q	Neutral	Neutral
1389	PAR4_HUMAN	F296V	Neutral	Neutral
1390	PARPT_HUMAN	R406S	Neutral	Neutral
1391	PASK_HUMAN	F1266C	Neutral	Neutral
1392	PASK_HUMAN	V1210M	Neutral	Neutral
1393	PC11Y_HUMAN	V917F	Neutral	Neutral
1394	PC11Y_HUMAN	N1012K	Neutral	Neutral
1395	PCDBG_HUMAN	R525Q	Neutral	Neutral
1396	PCX1_HUMAN	L814I	Neutral	Neutral
1397	PCX1_HUMAN	L809I	Neutral	Neutral
1398	PDC10_HUMAN	D102A	Neutral	Neutral
1399	PDCD4_HUMAN	S48Y	Neutral	Neutral
1400	PDE6C_HUMAN	E834G	Neutral	Neutral
1401	PDE6C_HUMAN	D157E	Neutral	Neutral
1402	PDE6C_HUMAN	K822N	Neutral	Neutral
1403	PDLI5_HUMAN	S136F	Neutral	Neutral
1404	PEG3_HUMAN	R1576L	Neutral	Neutral
1405	PEG3_HUMAN	A235T	Neutral	Neutral
1406	PEG3_HUMAN	D983G	Neutral	Neutral

1407	PEG3_HUMAN	V839L	Neutral	Neutral
1408	PEO1_HUMAN	A475P	Disease	Disease
1409	PEO1_HUMAN	W474C	Disease	Disease
1410	PER2_HUMAN	S662G	Disease	Neutral
1411	PEVR2_HUMAN	A271V	Neutral	Neutral
1412	PEVR2_HUMAN	V296M	Neutral	Neutral
1413	PGM2_HUMAN	E488D	Neutral	Neutral
1414	PGM2_HUMAN	G10D	Neutral	Neutral
1415	PHLB2_HUMAN	P941S	Neutral	Neutral
1416	PI2R_HUMAN	V25M	Neutral	Neutral
1417	PI51B_HUMAN	A415T	Neutral	Neutral
1418	PICAL_HUMAN	F641L	Neutral	Neutral
1419	PICAL_HUMAN	Q579E	Neutral	Neutral
1420	PICAL_HUMAN	T158P	Neutral	Neutral
1421	PICAL_HUMAN	W578C	Neutral	Neutral
1422	PICAL_HUMAN	S383F	Neutral	Neutral
1423	PIGB_HUMAN	W299L	Neutral	Neutral
1424	PIGB_HUMAN	M162T	Neutral	Neutral
1425	PIGB_HUMAN	I68L	Neutral	Neutral
1426	PIGM_HUMAN	F365L	Neutral	Neutral
1427	PIGZ_HUMAN	V417A	Neutral	Neutral
1428	PIWL1_HUMAN	L575P	Neutral	Neutral
1429	PIWL1_HUMAN	R527K	Neutral	Neutral
1430	PIWL1_HUMAN	K491N	Neutral	Neutral
1431	PIWL4_HUMAN	Q78R	Neutral	Neutral
1432	PIWL4_HUMAN	Q327L	Neutral	Neutral
1433	PK2L1_HUMAN	V393I	Neutral	Neutral
1434	PK2L1_HUMAN	R681L	Neutral	Neutral
1435	PK3CA_HUMAN	Q546P	Disease	Neutral
1436	PK3CA_HUMAN	T1052K	Disease	Neutral
1437	PK3CA_HUMAN	E545A	Disease	Neutral
1438	PK3CA_HUMAN	H1047Y	Disease	Neutral
1439	PK3CA_HUMAN	H1047L	Disease	Neutral
1440	PK3CA_HUMAN	G106V	Disease	Neutral
1441	PK3CA_HUMAN	Y1021H	Disease	Neutral
1442	PK3CA_HUMAN	R38H	Disease	Neutral
1443	PK3CA_HUMAN	E542V	Disease	Neutral
1444	PK3CA_HUMAN	R88Q	Disease	Neutral
1445	PK3CA_HUMAN	A1035V	Disease	Neutral
1446	PK3CA_HUMAN	E542K	Disease	Neutral
1447	PK3CA_HUMAN	H1065Y	Disease	Neutral
1448	PK3CA_HUMAN	E545K	Disease	Neutral
1449	PK3CA_HUMAN	R1023Q	Disease	Neutral
1450	PK3CA_HUMAN	M1043I	Disease	Neutral
1451	PK3CA_HUMAN	Y1021C	Disease	Neutral
1452	PK3CA_HUMAN	Q546K	Disease	Neutral
1453	PK3CA_HUMAN	T1025N	Disease	Neutral

1454	PK3CA_HUMAN	Q546E	Disease	Neutral
1455	PK3CA_HUMAN	G1007R	Disease	Neutral
1456	PK3CA_HUMAN	I391M	Neutral	Neutral
1457	PK3CA_HUMAN	C420R	Disease	Neutral
1458	PK3CA_HUMAN	Y343C	Disease	Neutral
1459	PK3CA_HUMAN	E542Q	Disease	Neutral
1460	PK3CA_HUMAN	G1050D	Disease	Neutral
1461	PK3CA_HUMAN	H1065L	Disease	Neutral
1462	PK3CA_HUMAN	H1047R	Disease	Neutral
1463	PK3CA_HUMAN	E545G	Disease	Neutral
1464	PK3CA_HUMAN	E453Q	Disease	Neutral
1465	PK3CA_HUMAN	Y1021N	Disease	Neutral
1466	PK3CA_HUMAN	Q546R	Disease	Neutral
1467	PKD2_HUMAN	A356P	Disease	Neutral
1468	PKD2_HUMAN	W414G	Disease	Neutral
1469	PKD2_HUMAN	I452V	Neutral	Neutral
1470	PLCB3_HUMAN	R483H	Neutral	Neutral
1471	PLEK_HUMAN	W92R	Neutral	Neutral
1472	PLEK_HUMAN	R5W	Neutral	Neutral
1473	PLEK_HUMAN	K97N	Neutral	Neutral
1474	PLOD1_HUMAN	G678R	Disease	Disease
1475	PLOD1_HUMAN	H706R	Disease	Neutral
1476	PLSL_HUMAN	D24E	Neutral	Neutral
1477	PNPH_HUMAN	Y192C	Disease	Neutral
1478	PNPH_HUMAN	E89K	Disease	Neutral
1479	PNPH_HUMAN	A174P	Disease	Neutral
1480	PNPH_HUMAN	D128G	Disease	Neutral
1481	PNPH_HUMAN	R234P	Disease	Neutral
1482	PO210_HUMAN	A944P	Neutral	Neutral
1483	PO210_HUMAN	A755V	Neutral	Neutral
1484	PO210_HUMAN	A297T	Neutral	Neutral
1485	PO210_HUMAN	V1787M	Neutral	Neutral
1486	PO210_HUMAN	I608V	Neutral	Neutral
1487	PO210_HUMAN	R786L	Neutral	Neutral
1488	PO210_HUMAN	L1752S	Neutral	Neutral
1489	PO210_HUMAN	M1096I	Neutral	Neutral
1490	PO210_HUMAN	P821A	Neutral	Neutral
1491	PO210_HUMAN	D1430E	Neutral	Neutral
1492	PODN_HUMAN	V472A	Neutral	Neutral
1493	PODN_HUMAN	T444M	Neutral	Neutral
1494	PPBN_HUMAN	Q34E	Neutral	Neutral
1495	PPCKC_HUMAN	P427S	Neutral	Neutral
1496	PPCKC_HUMAN	V184L	Neutral	Neutral
1497	PPCKC_HUMAN	R55Q	Neutral	Neutral
1498	PPCKC_HUMAN	M60T	Neutral	Neutral
1499	PPCKC_HUMAN	I267V	Neutral	Neutral
1500	PPCKC_HUMAN	T138I	Neutral	Neutral

1501	PPCKC_HUMAN	E276K	Neutral	Neutral
1502	PPCKC_HUMAN	V368I	Neutral	Neutral
1503	PIIP1_HUMAN	A230T	Disease	Neutral
1504	PIIP1_HUMAN	E106K	Neutral	Neutral
1505	PIIP1_HUMAN	E250Q	Disease	Neutral
1506	PRDX3_HUMAN	S55R	Neutral	Neutral
1507	PRDX3_HUMAN	A218T	Neutral	Neutral
1508	PRDX3_HUMAN	T234I	Neutral	Neutral
1509	PREP_HUMAN	L145V	Neutral	Neutral
1510	PREP_HUMAN	I952M	Neutral	Neutral
1511	PREP_HUMAN	V621I	Neutral	Neutral
1512	PREP_HUMAN	Q516H	Neutral	Neutral
1513	PREP_HUMAN	V963I	Neutral	Neutral
1514	PREP_HUMAN	F169S	Neutral	Neutral
1515	PREP_HUMAN	P969L	Neutral	Neutral
1516	PRG4_HUMAN	R180W	Neutral	Neutral
1517	PRGC2_HUMAN	A203P	Neutral	Neutral
1518	PRP31_HUMAN	A216P	Disease	Neutral
1519	PRP31_HUMAN	A194E	Disease	Neutral
1520	PSB4_HUMAN	I234T	Neutral	Neutral
1521	PSB4_HUMAN	M95I	Neutral	Neutral
1522	PSTK_HUMAN	G206R	Neutral	Neutral
1523	PTHB1_HUMAN	A455V	Neutral	Neutral
1524	PTN11_HUMAN	E139D	Disease	Neutral
1525	PTN11_HUMAN	A72V	Disease	Neutral
1526	PTN11_HUMAN	G60A	Disease	Neutral
1527	PTN11_HUMAN	F285L	Disease	Neutral
1528	PTN11_HUMAN	G468A	Disease	Neutral
1529	PTN11_HUMAN	G507R	Disease	Neutral
1530	PTN11_HUMAN	M508V	Disease	Neutral
1531	PTN11_HUMAN	Y279C	Disease	Neutral
1532	PTN11_HUMAN	Q510R	Disease	Neutral
1533	PTN11_HUMAN	E76G	Disease	Neutral
1534	PTN11_HUMAN	T472M	Disease	Neutral
1535	PTN11_HUMAN	Q256R	Disease	Neutral
1536	PTN11_HUMAN	D61N	Disease	Neutral
1537	PTN11_HUMAN	L564F	Disease	Neutral
1538	PTN11_HUMAN	N308D	Disease	Neutral
1539	PTN11_HUMAN	E76D	Disease	Neutral
1540	PTN11_HUMAN	T2I	Disease	Neutral
1541	PTN11_HUMAN	I282V	Disease	Neutral
1542	PTN11_HUMAN	Q79P	Disease	Neutral
1543	PTN11_HUMAN	D61Y	Disease	Neutral
1544	PTN11_HUMAN	Y62D	Disease	Neutral
1545	PTN11_HUMAN	Y279S	Disease	Neutral
1546	PTN11_HUMAN	E76K	Disease	Neutral
1547	PTN11_HUMAN	N58K	Disease	Neutral

1548	PTN11_HUMAN	A72G	Disease	Neutral
1549	PTN11_HUMAN	R505K	Disease	Neutral
1550	PTN11_HUMAN	Q79R	Disease	Neutral
1551	PTN11_HUMAN	D61G	Disease	Neutral
1552	PTN11_HUMAN	T73I	Disease	Neutral
1553	PTN11_HUMAN	T415M	Disease	Neutral
1554	PTN11_HUMAN	R502L	Disease	Neutral
1555	PTN11_HUMAN	A465T	Disease	Neutral
1556	PTN11_HUMAN	G507A	Disease	Neutral
1557	PTN11_HUMAN	D106A	Disease	Neutral
1558	PTN11_HUMAN	Y63C	Disease	Neutral
1559	PTN11_HUMAN	D61V	Disease	Neutral
1560	PTN11_HUMAN	T42A	Disease	Neutral
1561	PTN11_HUMAN	E69Q	Disease	Neutral
1562	PTN11_HUMAN	Q510P	Disease	Neutral
1563	PTN11_HUMAN	F285S	Disease	Neutral
1564	PTN11_HUMAN	A72T	Disease	Neutral
1565	PTN11_HUMAN	E76V	Disease	Neutral
1566	PTN11_HUMAN	A72S	Disease	Neutral
1567	PTN11_HUMAN	E76A	Disease	Neutral
1568	PTN11_HUMAN	I309V	Disease	Neutral
1569	PTN11_HUMAN	F71K	Disease	Neutral
1570	PTN11_HUMAN	R502W	Disease	Neutral
1571	PTN11_HUMAN	Q514P	Disease	Neutral
1572	PTN11_HUMAN	S506T	Disease	Neutral
1573	PTN11_HUMAN	N308S	Disease	Neutral
1574	PTN11_HUMAN	E69K	Disease	Neutral
1575	PTPA_HUMAN	K28R	Neutral	Neutral
1576	PTPA_HUMAN	R208Q	Neutral	Neutral
1577	PTPA_HUMAN	S357L	Neutral	Neutral
1578	PTPRD_HUMAN	Q447E	Neutral	Disease
1579	PTPRT_HUMAN	A1118P	Disease	Disease
1580	PTPRT_HUMAN	M1259L	Disease	Disease
1581	PTPRT_HUMAN	V1269M	Disease	Disease
1582	PTPRT_HUMAN	N1128I	Disease	Disease
1583	PTPRT_HUMAN	T1368M	Disease	Disease
1584	PTPRT_HUMAN	R1346L	Disease	Disease
1585	PTPRT_HUMAN	Y1351F	Disease	Disease
1586	PTPRT_HUMAN	R1212W	Disease	Disease
1587	PX11C_HUMAN	C91W	Neutral	Neutral
1588	PYGL_HUMAN	R715S	Neutral	Neutral
1589	PYGL_HUMAN	V222I	Neutral	Neutral
1590	PYGL_HUMAN	N377K	Disease	Neutral
1591	PYGL_HUMAN	N339S	Disease	Neutral
1592	PYGL_HUMAN	V231E	Neutral	Neutral
1593	PZRN4_HUMAN	G429S	Neutral	Neutral
1594	QSC6L_HUMAN	K126E	Neutral	Neutral

1595	QSCN6_HUMAN	G200A	Neutral	Neutral
1596	QSCN6_HUMAN	H444R	Neutral	Neutral
1597	QSCN6_HUMAN	R256M	Neutral	Neutral
1598	QSCN6_HUMAN	A294S	Neutral	Neutral
1599	QSCN6_HUMAN	N114S	Neutral	Neutral
1600	R3HD1_HUMAN	Q632P	Neutral	Neutral
1601	RA51B_HUMAN	Y180C	Neutral	Neutral
1602	RA51B_HUMAN	L172W	Neutral	Neutral
1603	RA51B_HUMAN	K243R	Neutral	Neutral
1604	RA51B_HUMAN	F82C	Neutral	Neutral
1605	RA51B_HUMAN	V9M	Neutral	Neutral
1606	RA51B_HUMAN	S250A	Neutral	Neutral
1607	RAD9A_HUMAN	H239R	Neutral	Neutral
1608	RAD9A_HUMAN	C3F	Neutral	Neutral
1609	RAD9A_HUMAN	S100A	Neutral	Neutral
1610	RAD9A_HUMAN	M307T	Neutral	Neutral
1611	RAI14_HUMAN	A44T	Neutral	Neutral
1612	RAMP3_HUMAN	W56R	Neutral	Neutral
1613	RASF6_HUMAN	S163P	Neutral	Neutral
1614	RB27A_HUMAN	T62S	Neutral	Neutral
1615	RB27A_HUMAN	L84F	Neutral	Neutral
1616	RB27A_HUMAN	A152P	Disease	Neutral
1617	RB27A_HUMAN	W73G	Disease	Neutral
1618	RB27A_HUMAN	L130P	Disease	Neutral
1619	RB27A_HUMAN	T85P	Neutral	Neutral
1620	RBBP8_HUMAN	H387Y	Neutral	Neutral
1621	RBM41_HUMAN	H376Y	Neutral	Neutral
1622	RCBT2_HUMAN	A263T	Neutral	Neutral
1623	RCOR3_HUMAN	K42R	Neutral	Neutral
1624	RDH12_HUMAN	L99I	Disease	Neutral
1625	RDH12_HUMAN	T49M	Disease	Neutral
1626	RDH12_HUMAN	S175P	Disease	Neutral
1627	RDH12_HUMAN	H151N	Disease	Neutral
1628	RDH12_HUMAN	H151D	Disease	Neutral
1629	RDH12_HUMAN	Y226C	Disease	Neutral
1630	RDH12_HUMAN	P230A	Disease	Neutral
1631	RDH12_HUMAN	R161Q	Neutral	Neutral
1632	RDH12_HUMAN	I51N	Disease	Neutral
1633	RECQ5_HUMAN	D480G	Neutral	Neutral
1634	RETST_HUMAN	A533V	Neutral	Neutral
1635	RGS11_HUMAN	M427T	Neutral	Neutral
1636	RHBL3_HUMAN	V255M	Neutral	Neutral
1637	RHG07_HUMAN	N275S	Neutral	Neutral
1638	RHG07_HUMAN	T522A	Neutral	Neutral
1639	RHG07_HUMAN	V588A	Neutral	Neutral
1640	RHG07_HUMAN	V354M	Neutral	Neutral
1641	RHG07_HUMAN	H561Q	Neutral	Neutral

1642	RHG07_HUMAN	S772C	Neutral	Neutral
1643	RHG07_HUMAN	E762V	Neutral	Neutral
1644	RHG12_HUMAN	F442S	Neutral	Neutral
1645	RIBC2_HUMAN	F195L	Neutral	Neutral
1646	RIBC2_HUMAN	R262Q	Neutral	Neutral
1647	RIBC2_HUMAN	R180C	Neutral	Neutral
1648	RIN2_HUMAN	S197T	Neutral	Neutral
1649	RIR2B_HUMAN	V115L	Disease	Disease
1650	RM22_HUMAN	G154S	Neutral	Neutral
1651	RM37_HUMAN	L322V	Neutral	Neutral
1652	RM38_HUMAN	D371H	Neutral	Neutral
1653	RMI1_HUMAN	Y100H	Neutral	Neutral
1654	RN168_HUMAN	P401Q	Neutral	Neutral
1655	RNF10_HUMAN	E433D	Neutral	Neutral
1656	RNF10_HUMAN	L332F	Neutral	Neutral
1657	RNF32_HUMAN	H291Q	Neutral	Neutral
1658	RNF32_HUMAN	R288Q	Neutral	Neutral
1659	RNH2A_HUMAN	A258G	Neutral	Neutral
1660	RNH2A_HUMAN	G37S	Disease	Neutral
1661	RNH2A_HUMAN	L202S	Neutral	Neutral
1662	RNH2C_HUMAN	R69W	Disease	Disease
1663	ROR2_HUMAN	R184C	Disease	Neutral
1664	ROR2_HUMAN	V819I	Neutral	Neutral
1665	ROR2_HUMAN	N620K	Disease	Neutral
1666	ROR2_HUMAN	T245A	Neutral	Neutral
1667	ROR2_HUMAN	R189W	Disease	Neutral
1668	ROR2_HUMAN	R366W	Disease	Neutral
1669	ROR2_HUMAN	C182Y	Disease	Neutral
1670	RPB5_HUMAN	S44F	Neutral	Neutral
1671	RPC5_HUMAN	S46A	Neutral	Neutral
1672	RPP38_HUMAN	E88D	Neutral	Neutral
1673	RPP38_HUMAN	A114V	Neutral	Neutral
1674	S12A5_HUMAN	P407A	Neutral	Neutral
1675	S28A2_HUMAN	S75R	Neutral	Neutral
1676	S28A2_HUMAN	S245T	Neutral	Neutral
1677	S28A2_HUMAN	L163W	Neutral	Neutral
1678	S28A2_HUMAN	L462F	Neutral	Neutral
1679	S28A2_HUMAN	F355S	Neutral	Neutral
1680	S28A2_HUMAN	G509E	Neutral	Neutral
1681	S29A2_HUMAN	P94L	Neutral	Neutral
1682	S39A4_HUMAN	N106K	Disease	Neutral
1683	S39A4_HUMAN	G330D	Disease	Neutral
1684	S39A4_HUMAN	L410P	Disease	Neutral
1685	S39A4_HUMAN	P84L	Disease	Neutral
1686	S39A4_HUMAN	Q303H	Disease	Neutral
1687	S39A4_HUMAN	C309Y	Disease	Neutral
1688	S39A4_HUMAN	L372P	Disease	Neutral

1689	S39A4_HUMAN	G374R	Disease	Neutral
1690	S39A4_HUMAN	G526R	Disease	Disease
1691	S39A4_HUMAN	R95C	Disease	Neutral
1692	S39A4_HUMAN	P200L	Disease	Neutral
1693	S39A4_HUMAN	G630R	Disease	Neutral
1694	SAM50_HUMAN	I345V	Neutral	Neutral
1695	SCAR3_HUMAN	M325T	Neutral	Neutral
1696	SCAR3_HUMAN	F467L	Neutral	Neutral
1697	SCAR3_HUMAN	R423Q	Neutral	Neutral
1698	SCAR3_HUMAN	P551S	Neutral	Neutral
1699	SCAR3_HUMAN	V428I	Neutral	Neutral
1700	SCAR3_HUMAN	R130Q	Neutral	Neutral
1701	SCN2B_HUMAN	R47H	Neutral	Neutral
1702	SCN2B_HUMAN	R28W	Neutral	Neutral
1703	SCN7A_HUMAN	I407V	Neutral	Neutral
1704	SCNND_HUMAN	E380Q	Neutral	Neutral
1705	SCNND_HUMAN	G562S	Neutral	Neutral
1706	SCNND_HUMAN	G606R	Neutral	Neutral
1707	SCNND_HUMAN	C532Y	Neutral	Neutral
1708	SCNND_HUMAN	R180P	Neutral	Neutral
1709	SCNNG_HUMAN	G49C	Neutral	Neutral
1710	SCNNG_HUMAN	G183S	Neutral	Neutral
1711	SCNNG_HUMAN	R178W	Neutral	Neutral
1712	SCRN1_HUMAN	Q338R	Neutral	Neutral
1713	SCRN2_HUMAN	S411G	Neutral	Neutral
1714	SCRN2_HUMAN	K103R	Neutral	Neutral
1715	SCUB1_HUMAN	G398R	Neutral	Neutral
1716	SCUB2_HUMAN	V752G	Neutral	Neutral
1717	SCUB2_HUMAN	T791S	Neutral	Neutral
1718	SCUB2_HUMAN	T591M	Neutral	Neutral
1719	SDC3_HUMAN	T329I	Neutral	Neutral
1720	SDC3_HUMAN	D303N	Neutral	Neutral
1721	SDK1_HUMAN	H1641R	Neutral	Neutral
1722	SDK1_HUMAN	D1016N	Neutral	Neutral
1723	SEBP2_HUMAN	R540Q	Disease	Neutral
1724	SEM4A_HUMAN	R510Q	Neutral	Disease
1725	SEM4A_HUMAN	D345H	Disease	Neutral
1726	SEM4A_HUMAN	F350C	Disease	Neutral
1727	SEM7A_HUMAN	S115T	Neutral	Neutral
1728	SERPH_HUMAN	A41P	Neutral	Neutral
1729	SFR16_HUMAN	K159E	Neutral	Neutral
1730	SGCE_HUMAN	L172R	Disease	Neutral
1731	SGK71_HUMAN	R568Q	Neutral	Neutral
1732	SH24A_HUMAN	E216G	Neutral	Neutral
1733	SH2B3_HUMAN	W262R	Neutral	Neutral
1734	SHD_HUMAN	G138S	Neutral	Neutral
1735	SHP_HUMAN	R213C	Disease	Neutral

1736	SHP_HUMAN	R57W	Disease	Neutral
1737	SHP_HUMAN	G189E	Disease	Neutral
1738	SHP_HUMAN	A195S	Disease	Neutral
1739	SIA8C_HUMAN	K91T	Neutral	Neutral
1740	SIAT9_HUMAN	H104R	Neutral	Neutral
1741	SIG10_HUMAN	R520S	Neutral	Neutral
1742	SIG10_HUMAN	A226V	Neutral	Neutral
1743	SIP1_HUMAN	Q1119R	Disease	Neutral
1744	SIP1_HUMAN	R953G	Disease	Neutral
1745	SIRB1_HUMAN	R53H	Neutral	Neutral
1746	SIX6_HUMAN	T165A	Disease	Neutral
1747	SLIK2_HUMAN	S601P	Neutral	Neutral
1748	SLIK3_HUMAN	I605V	Neutral	Neutral
1749	SMC1A_HUMAN	E493A	Disease	Neutral
1750	SMCA4_HUMAN	M1036I	Neutral	Neutral
1751	SMCA4_HUMAN	V561E	Neutral	Neutral
1752	SMRA3_HUMAN	R819H	Neutral	Neutral
1753	SMRCD_HUMAN	V972A	Neutral	Neutral
1754	SMYD2_HUMAN	G165E	Neutral	Neutral
1755	SMYD4_HUMAN	R562W	Neutral	Neutral
1756	SNUT1_HUMAN	G485A	Neutral	Neutral
1757	SNUT3_HUMAN	S114F	Neutral	Neutral
1758	SNUT3_HUMAN	T81I	Neutral	Neutral
1759	SPB13_HUMAN	G293S	Neutral	Neutral
1760	SPB3_HUMAN	G351A	Neutral	Neutral
1761	SPB3_HUMAN	T357A	Neutral	Neutral
1762	SPEC1_HUMAN	M293L	Neutral	Neutral
1763	SPI2_HUMAN	E148G	Neutral	Neutral
1764	SPT18_HUMAN	S227P	Neutral	Neutral
1765	SPT18_HUMAN	K483R	Neutral	Neutral
1766	SPTA2_HUMAN	I1300T	Neutral	Disease
1767	SPTN2_HUMAN	L253P	Disease	Neutral
1768	SPTN2_HUMAN	V1034A	Neutral	Neutral
1769	SPY2_HUMAN	P106S	Neutral	Neutral
1770	SQSTM_HUMAN	M404V	Disease	Neutral
1771	SQSTM_HUMAN	G425R	Disease	Neutral
1772	SQSTM_HUMAN	P392L	Disease	Neutral
1773	SQSTM_HUMAN	M404T	Disease	Neutral
1774	SQSTM_HUMAN	E274Q	Neutral	Neutral
1775	SQSTM_HUMAN	A117V	Neutral	Disease
1776	SQSTM_HUMAN	S399P	Disease	Disease
1777	SQSTM_HUMAN	P387L	Disease	Neutral
1778	SRBP2_HUMAN	V623M	Neutral	Neutral
1779	SRP14_HUMAN	P51S	Neutral	Neutral
1780	SRP14_HUMAN	S68I	Neutral	Neutral
1781	SRRM2_HUMAN	P804T	Neutral	Neutral
1782	SRRM2_HUMAN	S883C	Neutral	Neutral

1783	ST5_HUMAN	I620T	Neutral	Neutral
1784	ST5_HUMAN	K316N	Neutral	Neutral
1785	ST5_HUMAN	S774G	Neutral	Neutral
1786	STA13_HUMAN	K250R	Neutral	Neutral
1787	STAR6_HUMAN	E159K	Neutral	Neutral
1788	STK36_HUMAN	G1003D	Neutral	Neutral
1789	STK36_HUMAN	S767T	Neutral	Neutral
1790	STK36_HUMAN	K463N	Neutral	Neutral
1791	STK4_HUMAN	V312M	Neutral	Neutral
1792	STOX1_HUMAN	E608D	Neutral	Neutral
1793	STTP1_HUMAN	T128P	Neutral	Neutral
1794	STTP1_HUMAN	V305M	Neutral	Neutral
1795	STTP1_HUMAN	H359R	Neutral	Neutral
1796	STX3_HUMAN	E83D	Neutral	Neutral
1797	SUH_HUMAN	P425S	Neutral	Neutral
1798	SUH_HUMAN	A456V	Neutral	Neutral
1799	SUH_HUMAN	K291E	Neutral	Neutral
1800	SUH_HUMAN	R419Q	Neutral	Neutral
1801	SUH_HUMAN	D334H	Neutral	Neutral
1802	SUSD2_HUMAN	S110T	Neutral	Neutral
1803	SUSD2_HUMAN	N466S	Neutral	Neutral
1804	SUSD3_HUMAN	K136E	Neutral	Disease
1805	SWP70_HUMAN	Q505E	Neutral	Neutral
1806	SYAC_HUMAN	G275D	Neutral	Neutral
1807	SYAM_HUMAN	A484D	Neutral	Neutral
1808	SYAM_HUMAN	I339V	Neutral	Neutral
1809	SYCE1_HUMAN	K183R	Neutral	Neutral
1810	SYNE2_HUMAN	G2801S	Neutral	Neutral
1811	SYNE2_HUMAN	N2358S	Neutral	Neutral
1812	SYNE2_HUMAN	A2394T	Neutral	Neutral
1813	SYTL5_HUMAN	I275V	Neutral	Neutral
1814	SYYC_HUMAN	E196K	Disease	Neutral
1815	SYYC_HUMAN	Q170H	Neutral	Neutral
1816	SYYC_HUMAN	G41R	Disease	Neutral
1817	T106B_HUMAN	T185S	Neutral	Neutral
1818	T2EA_HUMAN	P366S	Neutral	Neutral
1819	T3JAM_HUMAN	Q373E	Neutral	Neutral
1820	TAF1B_HUMAN	T351A	Neutral	Neutral
1821	TAF1B_HUMAN	V282I	Neutral	Neutral
1822	TAXB1_HUMAN	L307I	Neutral	Neutral
1823	TBCD1_HUMAN	V228G	Neutral	Neutral
1824	TBCD1_HUMAN	R1136Q	Neutral	Neutral
1825	TBCD1_HUMAN	Y685S	Neutral	Neutral
1826	TCF20_HUMAN	T485N	Neutral	Neutral
1827	TCF20_HUMAN	S1325N	Neutral	Neutral
1828	TDRD6_HUMAN	R192Q	Neutral	Neutral
1829	TDRD6_HUMAN	Q1014E	Neutral	Neutral

1830	TDRD6_HUMAN	T398A	Neutral	Neutral
1831	TEKT4_HUMAN	T83M	Neutral	Neutral
1832	TEKT4_HUMAN	K102N	Neutral	Neutral
1833	TEKT4_HUMAN	N409K	Neutral	Neutral
1834	TEN2_HUMAN	V1719F	Neutral	Neutral
1835	TENN_HUMAN	P930L	Neutral	Neutral
1836	TENS4_HUMAN	S498N	Neutral	Neutral
1837	TFE3_HUMAN	S96C	Neutral	Neutral
1838	TGFA_HUMAN	V109M	Neutral	Neutral
1839	TGFR2_HUMAN	V439A	Neutral	Disease
1840	TGFR2_HUMAN	V191I	Neutral	Disease
1841	TGFR2_HUMAN	L308P	Disease	Disease
1842	TGFR2_HUMAN	R537C	Disease	Disease
1843	TGFR2_HUMAN	V447A	Disease	Disease
1844	TGFR2_HUMAN	R528C	Disease	Disease
1845	TGFR2_HUMAN	L452M	Disease	Disease
1846	TGFR2_HUMAN	A355P	Disease	Disease
1847	TGFR2_HUMAN	V387M	Disease	Disease
1848	TGFR2_HUMAN	G357W	Disease	Disease
1849	TGFR2_HUMAN	T315M	Disease	Disease
1850	TGFR2_HUMAN	M36V	Neutral	Disease
1851	TGFR2_HUMAN	N435S	Disease	Disease
1852	TGFR2_HUMAN	Y336N	Disease	Disease
1853	TGFR2_HUMAN	R528H	Disease	Disease
1854	TGFR2_HUMAN	S449F	Disease	Disease
1855	TGFR2_HUMAN	E526Q	Disease	Disease
1856	TLN1_HUMAN	R1919W	Neutral	Neutral
1857	TLN1_HUMAN	S1227L	Neutral	Neutral
1858	TLR2_HUMAN	R579H	Neutral	Neutral
1859	TLR2_HUMAN	T411I	Neutral	Neutral
1860	TLR2_HUMAN	P631H	Neutral	Neutral
1861	TM104_HUMAN	V58M	Neutral	Neutral
1862	TM104_HUMAN	A439T	Neutral	Neutral
1863	TM9S1_HUMAN	R215H	Neutral	Neutral
1864	TMBI1_HUMAN	P21L	Neutral	Neutral
1865	TMM24_HUMAN	R413W	Neutral	Neutral
1866	TMM70_HUMAN	T250A	Neutral	Neutral
1867	TMPS2_HUMAN	V160M	Neutral	Neutral
1868	TMPS4_HUMAN	R177Q	Neutral	Neutral
1869	TOIP1_HUMAN	M146T	Neutral	Neutral
1870	TOPK_HUMAN	N107S	Neutral	Neutral
1871	TRAF4_HUMAN	A173T	Neutral	Neutral
1872	TREX1_HUMAN	R169H	Disease	Disease
1873	TRFL_HUMAN	I148T	Neutral	Neutral
1874	TRFL_HUMAN	G422C	Neutral	Neutral
1875	TRFL_HUMAN	K47R	Neutral	Neutral
1876	TRFL_HUMAN	E579D	Neutral	Neutral

1877	TRFL_HUMAN	A29T	Neutral	Neutral
1878	TRI41_HUMAN	D438G	Neutral	Neutral
1879	TRI41_HUMAN	A78T	Neutral	Neutral
1880	TRIB3_HUMAN	Q84R	Neutral	Neutral
1881	TRM61_HUMAN	V66A	Neutral	Neutral
1882	TRMT5_HUMAN	L255P	Neutral	Neutral
1883	TRMT5_HUMAN	E294A	Neutral	Neutral
1884	TRUB1_HUMAN	R167K	Neutral	Neutral
1885	TRUB2_HUMAN	V93L	Neutral	Neutral
1886	TSK_HUMAN	R208C	Neutral	Neutral
1887	TSK_HUMAN	S248N	Neutral	Neutral
1888	TSK_HUMAN	V308I	Neutral	Neutral
1889	TTC15_HUMAN	S301G	Neutral	Neutral
1890	TTC6_HUMAN	T140I	Neutral	Neutral
1891	TUT1_HUMAN	L442F	Neutral	Neutral
1892	TY3H_HUMAN	V499M	Neutral	Disease
1893	TY3H_HUMAN	V112M	Neutral	Disease
1894	TYRP1_HUMAN	R356Q	Disease	Neutral
1895	TYRP1_HUMAN	R326H	Neutral	Neutral
1896	UBDC1_HUMAN	E374D	Neutral	Neutral
1897	UBIP1_HUMAN	T212A	Neutral	Neutral
1898	UBP31_HUMAN	R931L	Neutral	Neutral
1899	UBP31_HUMAN	A552T	Neutral	Neutral
1900	UBP48_HUMAN	E135K	Neutral	Neutral
1901	UBP48_HUMAN	S125C	Neutral	Neutral
1902	UBR1_HUMAN	G1279S	Disease	Neutral
1903	UCHL5_HUMAN	I197F	Neutral	Neutral
1904	UDG2_HUMAN	L161M	Neutral	Neutral
1905	UFC1_HUMAN	Y90C	Neutral	Neutral
1906	UN45B_HUMAN	I852N	Neutral	Neutral
1907	UN45B_HUMAN	V60I	Neutral	Neutral
1908	UN84B_HUMAN	G671S	Neutral	Neutral
1909	UQCR1_HUMAN	N301S	Neutral	Neutral
1910	UQCR2_HUMAN	R148S	Neutral	Neutral
1911	UROL1_HUMAN	V850I	Neutral	Neutral
1912	UROL1_HUMAN	N1309H	Neutral	Neutral
1913	UROL1_HUMAN	M559T	Neutral	Neutral
1914	UROL1_HUMAN	G1068S	Neutral	Neutral
1915	UROL1_HUMAN	S1027N	Neutral	Neutral
1916	UROL1_HUMAN	R447Q	Neutral	Neutral
1917	UROL1_HUMAN	N274D	Neutral	Neutral
1918	UROL1_HUMAN	I639T	Neutral	Neutral
1919	UROL1_HUMAN	E1115K	Neutral	Neutral
1920	UROL1_HUMAN	N274H	Neutral	Neutral
1921	UROL1_HUMAN	V173L	Neutral	Neutral
1922	UROL1_HUMAN	T698P	Neutral	Neutral
1923	UROL1_HUMAN	D1208N	Neutral	Neutral

1924	USBP1_HUMAN	V525M	Neutral	Neutral
1925	USBP1_HUMAN	M439V	Neutral	Neutral
1926	USH1G_HUMAN	L48P	Disease	Neutral
1927	VASN_HUMAN	E384A	Neutral	Neutral
1928	VDR_HUMAN	T362I	Neutral	Neutral
1929	VIGLN_HUMAN	N418S	Neutral	Neutral
1930	VIGLN_HUMAN	W1264L	Neutral	Neutral
1931	VKGC_HUMAN	R325Q	Neutral	Disease
1932	VKGC_HUMAN	R485P	Disease	Disease
1933	VKGC_HUMAN	W501S	Disease	Disease
1934	VKGC_HUMAN	L394R	Disease	Disease
1935	WBS16_HUMAN	R30G	Neutral	Neutral
1936	WD21A_HUMAN	S345C	Neutral	Neutral
1937	WD21A_HUMAN	R439I	Neutral	Neutral
1938	WD21A_HUMAN	N266S	Neutral	Neutral
1939	WD21A_HUMAN	K193T	Neutral	Neutral
1940	WDFY3_HUMAN	I3032V	Neutral	Neutral
1941	WDR36_HUMAN	I264V	Neutral	Neutral
1942	WDR36_HUMAN	A449T	Disease	Neutral
1943	WDR36_HUMAN	R529Q	Disease	Neutral
1944	WDR36_HUMAN	M671V	Neutral	Neutral
1945	WDR36_HUMAN	D658G	Disease	Neutral
1946	WDR36_HUMAN	N355S	Disease	Neutral
1947	WDR37_HUMAN	I225V	Neutral	Neutral
1948	WDR44_HUMAN	T296A	Neutral	Neutral
1949	WDR44_HUMAN	A289T	Neutral	Neutral
1950	WDR65_HUMAN	A183S	Neutral	Neutral
1951	WDR65_HUMAN	N241D	Neutral	Neutral
1952	WDR65_HUMAN	C345S	Neutral	Neutral
1953	WDR67_HUMAN	V709F	Neutral	Neutral
1954	WDR67_HUMAN	R414H	Neutral	Neutral
1955	WDR72_HUMAN	S833A	Neutral	Neutral
1956	WDR72_HUMAN	L819F	Neutral	Neutral
1957	WDR76_HUMAN	S614G	Neutral	Neutral
1958	WSB1_HUMAN	L16S	Neutral	Neutral
1959	WWC1_HUMAN	R250C	Neutral	Neutral
1960	XDH_HUMAN	R607Q	Neutral	Neutral
1961	XDH_HUMAN	N1109T	Neutral	Neutral
1962	XDH_HUMAN	I703V	Neutral	Neutral
1963	XDH_HUMAN	T910M	Neutral	Neutral
1964	XDH_HUMAN	D584A	Neutral	Neutral
1965	XDH_HUMAN	V1091L	Neutral	Neutral
1966	XDH_HUMAN	P555S	Neutral	Neutral
1967	XDH_HUMAN	I646V	Neutral	Neutral
1968	XDH_HUMAN	R1296W	Neutral	Neutral
1969	XDH_HUMAN	K617N	Neutral	Neutral
1970	XDH_HUMAN	R1176C	Neutral	Neutral

1971	XDH_HUMAN	T623I	Neutral	Neutral
1972	XPO2_HUMAN	I754V	Neutral	Neutral
1973	XPO7_HUMAN	E398D	Neutral	Neutral
1974	XPO7_HUMAN	C835Y	Neutral	Neutral
1975	XRN2_HUMAN	R743M	Neutral	Neutral
1976	XRP2_HUMAN	E138G	Disease	Neutral
1977	XRP2_HUMAN	C86Y	Disease	Neutral
1978	XRP2_HUMAN	C108G	Disease	Neutral
1979	XRP2_HUMAN	R118L	Disease	Neutral
1980	XRP2_HUMAN	L188P	Disease	Neutral
1981	XRP2_HUMAN	C67Y	Disease	Neutral
1982	XRP2_HUMAN	L253R	Disease	Neutral
1983	XRP2_HUMAN	R118H	Disease	Neutral
1984	XRP2_HUMAN	R118C	Disease	Neutral
1985	XRP2_HUMAN	P95L	Disease	Neutral
1986	YIPF6_HUMAN	F202L	Neutral	Neutral
1987	ZCH11_HUMAN	D796Y	Neutral	Neutral
1988	ZCH14_HUMAN	V693M	Neutral	Neutral
1989	ZCHC4_HUMAN	L396H	Neutral	Neutral
1990	ZDH12_HUMAN	P69S	Neutral	Neutral
1991	ZDHC4_HUMAN	V53M	Neutral	Disease
1992	ZDHC7_HUMAN	V201I	Neutral	Disease
1993	ZF64A_HUMAN	S451N	Neutral	Neutral
1994	ZF64A_HUMAN	P139L	Neutral	Neutral
1995	ZF64A_HUMAN	F425Y	Neutral	Neutral
1996	ZF64A_HUMAN	Q68P	Neutral	Neutral
1997	ZIC2_HUMAN	Q36P	Disease	Neutral
1998	ZIC2_HUMAN	D152F	Disease	Neutral
1999	ZN143_HUMAN	E561Q	Neutral	Neutral
2000	ZN189_HUMAN	R221K	Neutral	Neutral
2001	ZN192_HUMAN	P163L	Neutral	Neutral
2002	ZN438_HUMAN	P173S	Neutral	Neutral
2003	ZN667_HUMAN	T540A	Neutral	Neutral
2004	ZN667_HUMAN	K260R	Neutral	Neutral
2005	ZN668_HUMAN	A447V	Neutral	Disease
2006	ZN668_HUMAN	G304E	Neutral	Disease
2007	ZNF18_HUMAN	M240I	Neutral	Neutral
2008	ZNF18_HUMAN	Q210R	Neutral	Neutral