

Unclassified dataset

Num.	ID	Substituted site	Pred.
1	2AAA_HUMAN	H87R	Neutral
2	5HT2C_HUMAN	I156V	Neutral
3	5HT2C_HUMAN	N158S	Neutral
4	5HT2C_HUMAN	I160V	Neutral
5	A1AT_HUMAN	S4L	Neutral
6	A1AT_HUMAN	D26A	Neutral
7	A1AT_HUMAN	A58T	Neutral
8	A1AT_HUMAN	R63C	Neutral
9	A1AT_HUMAN	L65P	Neutral
10	A1AT_HUMAN	S69F	Neutral
11	A1AT_HUMAN	S77F	Neutral
12	A1AT_HUMAN	A84T	Neutral
13	A1AT_HUMAN	G91E	Neutral
14	A1AT_HUMAN	T92I	Neutral
15	A1AT_HUMAN	T109M	Neutral
16	A1AT_HUMAN	P112T	Neutral
17	A1AT_HUMAN	I116N	Neutral
18	A1AT_HUMAN	G172R	Neutral
19	A1AT_HUMAN	G172W	Neutral
20	A1AT_HUMAN	Q180E	Neutral
21	A1AT_HUMAN	E228K	Neutral
22	A1AT_HUMAN	R247C	Neutral
23	A1AT_HUMAN	D280V	Neutral
24	A1AT_HUMAN	S354F	Neutral
25	A1AT_HUMAN	D365N	Neutral
26	A1AT_HUMAN	E366K	Neutral
27	A1AT_HUMAN	M382R	Neutral
28	A1AT_HUMAN	P386H	Neutral
29	A1AT_HUMAN	P386T	Neutral
30	A1AT_HUMAN	E387K	Neutral
31	A1AT_HUMAN	P393L	Neutral
32	A1AT_HUMAN	P415H	Neutral
33	A4GAT_HUMAN	M183K	Neutral
34	A4_HUMAN	E665D	Disease
35	AAA1_HUMAN	E112D	Neutral
36	AACT_HUMAN	M401V	Neutral
37	ABCA1_HUMAN	N1611D	Disease
38	ABCBB_HUMAN	N591S	Neutral
39	ABCBB_HUMAN	D676Y	Disease
40	ABCBB_HUMAN	M677V	Disease
41	ABCBB_HUMAN	G855R	Disease
42	ACE_HUMAN	P1228L	Neutral
43	ACTC_HUMAN	M125V	Disease
44	ADIPO_HUMAN	G84R	Neutral

45	ADIPO_HUMAN	G90S	Neutral
46	ADIPO_HUMAN	I164T	Neutral
47	ADT1_HUMAN	A123D	Disease
48	AG10B_HUMAN	I446V	Neutral
49	AGAL_HUMAN	F396Y	Disease
50	AGAP1_HUMAN	S82G	Neutral
51	AGAP1_HUMAN	R798G	Neutral
52	AGAP1_HUMAN	P854T	Neutral
53	AGAP2_HUMAN	T568I	Disease
54	AIP_HUMAN	K241E	Neutral
55	AIP_HUMAN	R271W	Neutral
56	AIP_HUMAN	R304Q	Neutral
57	ALBU_HUMAN	R23C	Neutral
58	ALBU_HUMAN	R23H	Neutral
59	ALBU_HUMAN	R24L	Neutral
60	ALBU_HUMAN	R24P	Neutral
61	ALBU_HUMAN	R24Q	Neutral
62	ALBU_HUMAN	D25V	Neutral
63	ALBU_HUMAN	H27Q	Neutral
64	ALBU_HUMAN	H27Y	Neutral
65	ALBU_HUMAN	E84K	Neutral
66	ALBU_HUMAN	D87N	Neutral
67	ALBU_HUMAN	E106K	Neutral
68	ALBU_HUMAN	R138G	Neutral
69	ALBU_HUMAN	E143K	Neutral
70	ALBU_HUMAN	V146E	Neutral
71	ALBU_HUMAN	H152R	Neutral
72	ALBU_HUMAN	C201F	Neutral
73	ALBU_HUMAN	K249Q	Neutral
74	ALBU_HUMAN	K264E	Neutral
75	ALBU_HUMAN	Q292R	Neutral
76	ALBU_HUMAN	D293G	Neutral
77	ALBU_HUMAN	K300N	Neutral
78	ALBU_HUMAN	K337N	Neutral
79	ALBU_HUMAN	D338G	Neutral
80	ALBU_HUMAN	D338V	Neutral
81	ALBU_HUMAN	N342K	Neutral
82	ALBU_HUMAN	A344T	Neutral
83	ALBU_HUMAN	E345K	Neutral
84	ALBU_HUMAN	E357K	Neutral
85	ALBU_HUMAN	E378K	Neutral
86	ALBU_HUMAN	E382K	Neutral
87	ALBU_HUMAN	K383N	Neutral
88	ALBU_HUMAN	D389H	Neutral
89	ALBU_HUMAN	D389V	Neutral
90	ALBU_HUMAN	K396E	Neutral
91	ALBU_HUMAN	D399N	Neutral

92	ALBU_HUMAN	E400K	Neutral
93	ALBU_HUMAN	E400Q	Neutral
94	ALBU_HUMAN	E406K	Neutral
95	ALBU_HUMAN	R434C	Disease
96	ALBU_HUMAN	E503K	Neutral
97	ALBU_HUMAN	D518N	Neutral
98	ALBU_HUMAN	E525K	Neutral
99	ALBU_HUMAN	E529K	Neutral
100	ALBU_HUMAN	V557M	Neutral
101	ALBU_HUMAN	K560E	Neutral
102	ALBU_HUMAN	K565E	Neutral
103	ALBU_HUMAN	D574A	Neutral
104	ALBU_HUMAN	D574G	Neutral
105	ALBU_HUMAN	K584E	Neutral
106	ALBU_HUMAN	D587N	Neutral
107	ALBU_HUMAN	E589K	Neutral
108	ALBU_HUMAN	E594K	Neutral
109	ALBU_HUMAN	K597E	Neutral
110	ALBU_HUMAN	K598N	Neutral
111	ALDOB_HUMAN	W148R	Disease
112	AMBN_HUMAN	M11T	Neutral
113	AMBN_HUMAN	H439R	Neutral
114	ANDR_HUMAN	G568V	Disease
115	ANDR_HUMAN	S597T	Disease
116	ANDR_HUMAN	F725L	Disease
117	ANGI_HUMAN	I70V	Disease
118	ANGL4_HUMAN	E40K	Neutral
119	ANGT_HUMAN	T242I	Neutral
120	ANGT_HUMAN	Y281C	Neutral
121	ANK1_HUMAN	D1592N	Neutral
122	ANT3_HUMAN	M52T	Disease
123	APC_HUMAN	E1057G	Disease
124	APOA1_HUMAN	P27H	Neutral
125	APOA1_HUMAN	P28R	Neutral
126	APOA1_HUMAN	R34L	Neutral
127	APOA1_HUMAN	A119D	Neutral
128	APOA1_HUMAN	D127N	Neutral
129	APOA1_HUMAN	W132R	Neutral
130	APOA1_HUMAN	E134K	Neutral
131	APOA1_HUMAN	E160K	Neutral
132	APOA1_HUMAN	P167R	Neutral
133	APOA1_HUMAN	L168R	Neutral
134	APOA1_HUMAN	V180E	Neutral
135	APOA1_HUMAN	R197C	Neutral
136	APOA1_HUMAN	E222K	Neutral
137	APOA4_HUMAN	E44K	Neutral
138	APOA4_HUMAN	A161S	Neutral

139	APOA4_HUMAN	S178L	Neutral
140	APOA4_HUMAN	R264Q	Neutral
141	APOA4_HUMAN	R305C	Neutral
142	APOA_HUMAN	W4193R	Neutral
143	APOC3_HUMAN	T94A	Disease
144	APOE_HUMAN	R163H	Neutral
145	AQP1_HUMAN	P38L	Neutral
146	ARX_HUMAN	L33P	Disease
147	ASM_HUMAN	C157R	Disease
148	AT2C1_HUMAN	C344Y	Disease
149	AT2C1_HUMAN	C411R	Disease
150	AT2C1_HUMAN	T570I	Disease
151	AT2C1_HUMAN	I580V	Disease
152	AT2C1_HUMAN	D742Y	Disease
153	AT2C1_HUMAN	G789R	Disease
154	ATM_HUMAN	G2765S	Disease
155	ATS13_HUMAN	P475S	Disease
156	ATS13_HUMAN	P618A	Disease
157	ATS13_HUMAN	A732V	Disease
158	ATS13_HUMAN	R1095W	Neutral
159	AXN1_HUMAN	R841Q	Disease
160	B3AT_HUMAN	R432W	Disease
161	B3AT_HUMAN	E480K	Neutral
162	B3AT_HUMAN	P548L	Disease
163	B3AT_HUMAN	K551N	Disease
164	B3AT_HUMAN	T552I	Disease
165	B3AT_HUMAN	Y555H	Disease
166	B3AT_HUMAN	V557M	Neutral
167	B3AT_HUMAN	P561S	Disease
168	B3AT_HUMAN	G565A	Disease
169	B3AT_HUMAN	P566A	Neutral
170	B3AT_HUMAN	P566S	Disease
171	B3AT_HUMAN	N569K	Disease
172	B3AT_HUMAN	R646Q	Disease
173	B3AT_HUMAN	R646W	Disease
174	B3AT_HUMAN	R656C	Disease
175	B3AT_HUMAN	R656H	Disease
176	B3AT_HUMAN	E658K	Neutral
177	B3GL1_HUMAN	E266A	Neutral
178	B3GL1_HUMAN	G271R	Neutral
179	B4GT7_HUMAN	A186D	Neutral
180	B4GT7_HUMAN	L206P	Neutral
181	BARD1_HUMAN	K153E	Disease
182	BASI_HUMAN	E208K	Neutral
183	BAX_HUMAN	G11E	Neutral
184	BCL10_HUMAN	K45Q	Disease
185	BCL10_HUMAN	T52I	Disease

186	BCL10_HUMAN	R58Q	Disease
187	BCL10_HUMAN	N93S	Disease
188	BCL10_HUMAN	M153V	Disease
189	BEST1_HUMAN	R105C	Disease
190	BEST1_HUMAN	T216I	Disease
191	BEST1_HUMAN	G222V	Disease
192	BEST1_HUMAN	V275I	Disease
193	BGAL_HUMAN	S434L	Disease
194	BGAL_HUMAN	L436F	Disease
195	BGAL_HUMAN	G554E	Disease
196	BGAL_HUMAN	R595W	Disease
197	BGAT_HUMAN	G230R	Neutral
198	BGH3_HUMAN	V113I	Disease
199	BGH3_HUMAN	D123H	Disease
200	BGH3_HUMAN	V539D	Disease
201	BGH3_HUMAN	N544S	Disease
202	BGH3_HUMAN	G594V	Disease
203	BGH3_HUMAN	N622H	Disease
204	BGH3_HUMAN	V631D	Disease
205	BGLR_HUMAN	D152N	Disease
206	BMP4_HUMAN	S91C	Neutral
207	BMP4_HUMAN	T116S	Neutral
208	BMP4_HUMAN	N150K	Neutral
209	BRCA1_HUMAN	V11A	Neutral
210	BRCA1_HUMAN	I21V	Neutral
211	BRCA1_HUMAN	C64Y	Disease
212	BRCA1_HUMAN	I379M	Disease
213	BRCA1_HUMAN	R507I	Disease
214	BRCA1_HUMAN	E1219D	Disease
215	BRCA1_HUMAN	T1561I	Disease
216	BRCA1_HUMAN	K1606E	Neutral
217	BRCA1_HUMAN	M1628V	Disease
218	BRCA2_HUMAN	T225A	Disease
219	BRCA2_HUMAN	L1522F	Neutral
220	BRCA2_HUMAN	G2044V	Disease
221	C43BP_HUMAN	G67E	Neutral
222	CAC1S_HUMAN	R1086H	Neutral
223	CAD23_HUMAN	A2853Q	Neutral
224	CADH1_HUMAN	S270A	Disease
225	CAH1_HUMAN	H68R	Neutral
226	CAH1_HUMAN	G254R	Neutral
227	CAH2_HUMAN	K18E	Neutral
228	CAH2_HUMAN	P236H	Disease
229	CART_HUMAN	L61F	Neutral
230	CASR_HUMAN	E127A	Disease
231	CASR_HUMAN	E767K	Disease
232	CATZ_HUMAN	A129R	Neutral

233	CAV3_HUMAN	S61R	Disease
234	CBS_HUMAN	R18C	Disease
235	CBS_HUMAN	R548Q	Disease
236	CCL11_HUMAN	L7P	Neutral
237	CCL11_HUMAN	R51S	Neutral
238	CCL11_HUMAN	K79R	Neutral
239	CCR5_HUMAN	Y10D	Neutral
240	CCR5_HUMAN	R31H	Neutral
241	CCR5_HUMAN	P34L	Neutral
242	CCR5_HUMAN	K62R	Neutral
243	CCR5_HUMAN	Y68H	Neutral
244	CCR5_HUMAN	D95N	Neutral
245	CCR5_HUMAN	G97E	Neutral
246	CCR5_HUMAN	L122P	Neutral
247	CCR5_HUMAN	F158S	Neutral
248	CCR5_HUMAN	Y176C	Neutral
249	CCR5_HUMAN	T177A	Neutral
250	CCR5_HUMAN	C178R	Neutral
251	CCR5_HUMAN	S185N	Neutral
252	CCR5_HUMAN	M210V	Neutral
253	CCR5_HUMAN	Y214C	Neutral
254	CCR5_HUMAN	T239S	Neutral
255	CCR5_HUMAN	L246P	Neutral
256	CCR5_HUMAN	T288M	Neutral
257	CCR5_HUMAN	E302G	Neutral
258	CCR5_HUMAN	K303E	Neutral
259	CCR5_HUMAN	N306S	Neutral
260	CCR5_HUMAN	K322R	Neutral
261	CCR5_HUMAN	E333G	Neutral
262	CCR5_HUMAN	E345G	Neutral
263	CD22_HUMAN	Q152E	Neutral
264	CD36_HUMAN	E123K	Disease
265	CD36_HUMAN	T174A	Disease
266	CD36_HUMAN	I271T	Neutral
267	CD44_HUMAN	R46P	Neutral
268	CERU_HUMAN	I63T	Neutral
269	CFAH_HUMAN	R567G	Disease
270	CFAH_HUMAN	R1078S	Disease
271	CFAI_HUMAN	I340T	Disease
272	CFAI_HUMAN	D524V	Disease
273	CFTR_HUMAN	G622D	Disease
274	CFTR_HUMAN	E826K	Disease
275	CGHB_HUMAN	P24M	Neutral
276	CGL_HUMAN	Q240E	Neutral
277	CH038_HUMAN	Q99R	Neutral
278	CHFR_HUMAN	P166L	Neutral
279	CHFR_HUMAN	R202P	Neutral

280	CHFR_HUMAN	F536S	Neutral
281	CHK2_HUMAN	R117G	Disease
282	CHK2_HUMAN	R137Q	Disease
283	CHK2_HUMAN	S428F	Disease
284	CHM2B_HUMAN	Q206H	Neutral
285	CHPT1_HUMAN	Y323S	Neutral
286	CNGB3_HUMAN	R403Q	Disease
287	CNTP2_HUMAN	I869T	Neutral
288	CO1A1_HUMAN	G221C	Disease
289	CO1A1_HUMAN	G263V	Disease
290	CO1A1_HUMAN	G389C	Disease
291	CO1A1_HUMAN	G404C	Disease
292	CO1A1_HUMAN	G530S	Disease
293	CO1A1_HUMAN	G593C	Disease
294	CO1A1_HUMAN	G593S	Disease
295	CO1A1_HUMAN	G638S	Disease
296	CO1A1_HUMAN	G884S	Disease
297	CO1A1_HUMAN	G1040S	Disease
298	CO1A1_HUMAN	G1079S	Disease
299	CO1A1_HUMAN	G1187S	Disease
300	CO1A2_HUMAN	R708Q	Disease
301	CO2A1_HUMAN	R275C	Disease
302	CO2A1_HUMAN	G354R	Disease
303	CO2A1_HUMAN	G516D	Disease
304	CO2A1_HUMAN	G804A	Disease
305	CO2A1_HUMAN	G1005S	Disease
306	CO2A1_HUMAN	G1053E	Disease
307	CO2A1_HUMAN	G1113C	Disease
308	CO2A1_HUMAN	G1305D	Disease
309	CO2_HUMAN	C131Y	Neutral
310	CO2_HUMAN	S209F	Neutral
311	CO2_HUMAN	G464R	Neutral
312	CO3A1_HUMAN	G303R	Disease
313	CO3A1_HUMAN	G1164S	Disease
314	CO3_HUMAN	D1216N	Disease
315	CO7A1_HUMAN	G1595R	Disease
316	CO7A1_HUMAN	G1815R	Disease
317	COIA1_HUMAN	D1675N	Neutral
318	COX3_HUMAN	F251L	Neutral
319	CP1B1_HUMAN	A189P	Disease
320	CP1B1_HUMAN	A330S	Disease
321	CP21A_HUMAN	V304M	Disease
322	CP21A_HUMAN	G375S	Disease
323	CP27B_HUMAN	Q65H	Neutral
324	CP27B_HUMAN	R107H	Neutral
325	CP27B_HUMAN	G125E	Neutral
326	CP27B_HUMAN	E189G	Neutral

327	CP27B_HUMAN	E189K	Neutral
328	CP27B_HUMAN	T321R	Neutral
329	CP27B_HUMAN	S323Y	Neutral
330	CP27B_HUMAN	R335P	Neutral
331	CP27B_HUMAN	L343F	Neutral
332	CP27B_HUMAN	P382S	Neutral
333	CP27B_HUMAN	R389C	Neutral
334	CP27B_HUMAN	R389G	Neutral
335	CP27B_HUMAN	R389H	Neutral
336	CP27B_HUMAN	T409I	Neutral
337	CP27B_HUMAN	R429P	Neutral
338	CP27B_HUMAN	R453C	Neutral
339	CP27B_HUMAN	V478G	Neutral
340	CP27B_HUMAN	P497R	Neutral
341	CP2C8_HUMAN	E154D	Neutral
342	CP2C8_HUMAN	N193K	Neutral
343	CP2C8_HUMAN	K249R	Neutral
344	CP2C8_HUMAN	H411L	Neutral
345	CP2R1_HUMAN	L99P	Neutral
346	CR1_HUMAN	S1610T	Neutral
347	CRBA4_HUMAN	F94S	Neutral
348	CREL1_HUMAN	R107H	Neutral
349	CREL1_HUMAN	P162A	Neutral
350	CREL1_HUMAN	T311I	Neutral
351	CREL1_HUMAN	R329C	Neutral
352	CRGC_HUMAN	R169W	Neutral
353	CRGD_HUMAN	R37S	Disease
354	CRTAP_HUMAN	L67P	Neutral
355	CRUM2_HUMAN	P46L	Neutral
356	CRUM2_HUMAN	V97L	Neutral
357	CRUM2_HUMAN	P116L	Neutral
358	CRUM2_HUMAN	E187D	Neutral
359	CRYAA_HUMAN	R21L	Disease
360	CRYAA_HUMAN	R49C	Neutral
361	CRYAA_HUMAN	R116H	Neutral
362	CTNB1_HUMAN	G34V	Disease
363	CTRC_HUMAN	R37Q	Neutral
364	CTRC_HUMAN	Q48R	Neutral
365	CTRC_HUMAN	A73T	Neutral
366	CTRC_HUMAN	G217S	Neutral
367	CTRC_HUMAN	V235I	Neutral
368	CTRC_HUMAN	R254W	Neutral
369	CX6B1_HUMAN	R20H	Neutral
370	CXA3_HUMAN	L11S	Disease
371	CXA3_HUMAN	W45S	Disease
372	CXA3_HUMAN	P59L	Disease
373	CXA5_HUMAN	P88S	Neutral

374	CXA5_HUMAN	A96S	Neutral
375	CXA8_HUMAN	R23T	Disease
376	CXB1_HUMAN	P58R	Disease
377	CXB1_HUMAN	N175D	Disease
378	CXB2_HUMAN	G45E	Disease
379	CXB2_HUMAN	I71T	Disease
380	CXB2_HUMAN	T86R	Disease
381	CXB2_HUMAN	V153I	Disease
382	CXB2_HUMAN	V167M	Disease
383	CXB2_HUMAN	R184W	Disease
384	CXB4_HUMAN	R124Q	Neutral
385	CXB4_HUMAN	R160C	Neutral
386	CXB4_HUMAN	C169W	Neutral
387	CXCR6_HUMAN	D25A	Neutral
388	CYB_HUMAN	G34S	Neutral
389	CYB_HUMAN	S35P	Neutral
390	CYB_HUMAN	S151P	Neutral
391	CYB_HUMAN	G166E	Disease
392	CYB_HUMAN	G251S	Neutral
393	CYB_HUMAN	N255H	Neutral
394	CYB_HUMAN	Y278C	Neutral
395	CYB_HUMAN	G290D	Disease
396	CYB_HUMAN	G339E	Neutral
397	CYC_HUMAN	M66L	Neutral
398	CYFP2_HUMAN	K320E	Neutral
399	DAF_HUMAN	R52P	Neutral
400	DAF_HUMAN	L82R	Neutral
401	DAF_HUMAN	S199L	Neutral
402	DAF_HUMAN	A227P	Neutral
403	DAF_HUMAN	R240H	Neutral
404	DCR1C_HUMAN	G118V	Neutral
405	DCR1C_HUMAN	G135E	Neutral
406	DCX_HUMAN	R159H	Disease
407	DCX_HUMAN	R277S	Disease
408	DESP_HUMAN	G2375R	Disease
409	DHI2_HUMAN	P227L	Disease
410	DHSB_HUMAN	P131R	Disease
411	DHSD_HUMAN	H145N	Disease
412	DHSD_HUMAN	G148V	Disease
413	DLDH_HUMAN	K72E	Neutral
414	DLDH_HUMAN	G229C	Neutral
415	DLDH_HUMAN	P488L	Neutral
416	DLDH_HUMAN	R495G	Neutral
417	DMBT1_HUMAN	H1732S	Neutral
418	DMD_HUMAN	D165V	Disease
419	DMD_HUMAN	C3313F	Disease
420	DNLI1_HUMAN	E566K	Neutral

421	DNLI1_HUMAN	R771W	Neutral
422	DPOG1_HUMAN	Q497H	Neutral
423	DSPP_HUMAN	A15V	Disease
424	DSPP_HUMAN	P17S	Disease
425	DYH11_HUMAN	E34L	Neutral
426	DYSF_HUMAN	A170E	Disease
427	DYSF_HUMAN	R253W	Disease
428	DYSF_HUMAN	L266P	Disease
429	DYSF_HUMAN	L1276V	Disease
430	ECE1_HUMAN	R754C	Neutral
431	EDAR_HUMAN	C47Y	Disease
432	EDAR_HUMAN	D110A	Disease
433	EDAR_HUMAN	C148R	Disease
434	EDAR_HUMAN	R375H	Disease
435	EDAR_HUMAN	L377F	Neutral
436	EDAR_HUMAN	G382S	Disease
437	EDAR_HUMAN	T403M	Disease
438	EDAR_HUMAN	T413P	Disease
439	EDAR_HUMAN	I418T	Disease
440	EDAR_HUMAN	W434C	Disease
441	EI2BE_HUMAN	R195C	Disease
442	ELNE_HUMAN	C55Y	Neutral
443	ELNE_HUMAN	A57T	Neutral
444	ELNE_HUMAN	I60T	Neutral
445	ELNE_HUMAN	C71R	Neutral
446	ELNE_HUMAN	C71S	Neutral
447	ELNE_HUMAN	G85E	Neutral
448	ELNE_HUMAN	V101M	Neutral
449	ELNE_HUMAN	S126L	Neutral
450	ELNE_HUMAN	P139L	Neutral
451	ELNE_HUMAN	C151S	Neutral
452	ELNE_HUMAN	P205R	Neutral
453	ELNE_HUMAN	G210V	Neutral
454	ELNE_HUMAN	G214R	Neutral
455	ENOB_HUMAN	G156D	Neutral
456	ENOB_HUMAN	G374E	Neutral
457	EPM2A_HUMAN	A46P	Disease
458	ERCC2_HUMAN	G675R	Disease
459	ERMAP_HUMAN	G35S	Neutral
460	ERMAP_HUMAN	E47K	Neutral
461	ERMAP_HUMAN	G57R	Neutral
462	ERMAP_HUMAN	P60A	Neutral
463	ERMAP_HUMAN	R81Q	Neutral
464	ESR1_HUMAN	V364E	Neutral
465	ESR1_HUMAN	G400V	Neutral
466	EST1_HUMAN	G143E	Neutral
467	EXO1_HUMAN	E109K	Neutral

468	EXO1_HUMAN	L410R	Neutral
469	EXO1_HUMAN	P640S	Neutral
470	EXO1_HUMAN	P770L	Neutral
471	EXT2_HUMAN	E576K	Disease
472	EYA1_HUMAN	E363K	Disease
473	EYA1_HUMAN	R547G	Disease
474	F13B_HUMAN	C450F	Neutral
475	FA2H_HUMAN	D35Y	Neutral
476	FA5_HUMAN	R334G	Neutral
477	FA7_HUMAN	L13P	Neutral
478	FA7_HUMAN	F64L	Neutral
479	FA7_HUMAN	L73Q	Neutral
480	FA7_HUMAN	E79Q	Neutral
481	FA7_HUMAN	S120P	Neutral
482	FA7_HUMAN	C121F	Neutral
483	FA7_HUMAN	L125P	Neutral
484	FA7_HUMAN	Y128C	Neutral
485	FA7_HUMAN	R139K	Neutral
486	FA7_HUMAN	R139Q	Neutral
487	FA7_HUMAN	R139W	Neutral
488	FA7_HUMAN	C151S	Neutral
489	FA7_HUMAN	E154K	Neutral
490	FA7_HUMAN	G157C	Neutral
491	FA7_HUMAN	G157S	Neutral
492	FA7_HUMAN	G157V	Neutral
493	FA7_HUMAN	Q160R	Neutral
494	FA7_HUMAN	P194T	Neutral
495	FA7_HUMAN	C195R	Neutral
496	FA7_HUMAN	K197E	Neutral
497	FA7_HUMAN	R212Q	Neutral
498	FA7_HUMAN	G216D	Neutral
499	FA7_HUMAN	C238Y	Neutral
500	FA7_HUMAN	T241N	Neutral
501	FA7_HUMAN	C254Y	Neutral
502	FA7_HUMAN	A266T	Neutral
503	FA7_HUMAN	R283W	Neutral
504	FA7_HUMAN	D302H	Neutral
505	FA7_HUMAN	D302N	Neutral
506	FA7_HUMAN	A304T	Neutral
507	FA7_HUMAN	A304V	Neutral
508	FA7_HUMAN	R307C	Neutral
509	FA7_HUMAN	R307H	Neutral
510	FA7_HUMAN	V312M	Neutral
511	FA7_HUMAN	E325K	Neutral
512	FA7_HUMAN	T332M	Neutral
513	FA7_HUMAN	V341F	Neutral
514	FA7_HUMAN	A354V	Neutral

515	FA7_HUMAN	M358I	Neutral
516	FA7_HUMAN	M358V	Neutral
517	FA7_HUMAN	P363R	Neutral
518	FA7_HUMAN	R364Q	Neutral
519	FA7_HUMAN	C370F	Neutral
520	FA7_HUMAN	C389G	Neutral
521	FA7_HUMAN	G391S	Neutral
522	FA7_HUMAN	G402E	Neutral
523	FA7_HUMAN	G402R	Neutral
524	FA7_HUMAN	D403H	Neutral
525	FA7_HUMAN	T419M	Neutral
526	FA7_HUMAN	G435E	Neutral
527	FA9_HUMAN	A37T	Disease
528	FANCI_HUMAN	H858Y	Neutral
529	FANCI_HUMAN	R1285Q	Neutral
530	FATE1_HUMAN	I34T	Neutral
531	FATE1_HUMAN	S125R	Neutral
532	FBN1_HUMAN	G1127S	Disease
533	FBN1_HUMAN	V1128I	Disease
534	FGD4_HUMAN	M298R	Disease
535	FGF3_HUMAN	S156P	Neutral
536	FGFR1_HUMAN	G237S	Disease
537	FGFR1_HUMAN	P366L	Disease
538	FGFR2_HUMAN	A314S	Disease
539	FGFR2_HUMAN	A315S	Disease
540	FGFR2_HUMAN	K659N	Disease
541	FGFR4_HUMAN	V550M	Neutral
542	FIBA_HUMAN	D26N	Neutral
543	FIBA_HUMAN	G31V	Disease
544	FIBA_HUMAN	P37L	Disease
545	FIBA_HUMAN	R38G	Disease
546	FIBA_HUMAN	R38N	Disease
547	FIBA_HUMAN	R38S	Disease
548	FIBA_HUMAN	V39D	Disease
549	FIBA_HUMAN	R160S	Disease
550	FIBA_HUMAN	S453N	Neutral
551	FIBA_HUMAN	R573C	Disease
552	FIBB_HUMAN	R44C	Disease
553	FIBB_HUMAN	G45R	Disease
554	FIBB_HUMAN	R74C	Disease
555	FIBB_HUMAN	A98T	Neutral
556	FIBB_HUMAN	A365T	Neutral
557	FIBG_HUMAN	R301C	Neutral
558	FIBG_HUMAN	R301H	Neutral
559	FIBG_HUMAN	G318V	Neutral
560	FIBG_HUMAN	N334I	Neutral
561	FIBG_HUMAN	N334K	Neutral

562	FIBG_HUMAN	G335D	Neutral
563	FIBG_HUMAN	M336T	Neutral
564	FIBG_HUMAN	Q355R	Neutral
565	FIBG_HUMAN	D356V	Neutral
566	FIBG_HUMAN	D356Y	Neutral
567	FIBG_HUMAN	N363K	Neutral
568	FIBG_HUMAN	S384C	Neutral
569	FIBG_HUMAN	R401G	Neutral
570	FMO3_HUMAN	E24D	Neutral
571	FMO3_HUMAN	N61K	Neutral
572	FMO3_HUMAN	K416N	Neutral
573	FOLH1_HUMAN	H475Y	Neutral
574	FOXA2_HUMAN	A328V	Neutral
575	FOXE1_HUMAN	R102C	Neutral
576	FSHR_HUMAN	D567G	Disease
577	FTM_HUMAN	T677I	Neutral
578	FURIN_HUMAN	W547R	Neutral
579	FUS_HUMAN	H517Q	Disease
580	FUT1_HUMAN	Y154C	Neutral
581	FUT1_HUMAN	L164H	Neutral
582	FUT1_HUMAN	W171C	Neutral
583	FUT1_HUMAN	L242R	Neutral
584	FUT1_HUMAN	V259E	Neutral
585	FUT1_HUMAN	A315V	Neutral
586	FUT1_HUMAN	W349C	Neutral
587	FUT3_HUMAN	Q102K	Neutral
588	FUT3_HUMAN	S124A	Neutral
589	FUT3_HUMAN	D336A	Neutral
590	G6PD_HUMAN	V12L	Neutral
591	G6PD_HUMAN	H32R	Neutral
592	G6PD_HUMAN	A44G	Neutral
593	G6PD_HUMAN	I48T	Disease
594	G6PD_HUMAN	D58N	Neutral
595	G6PD_HUMAN	Y70H	Disease
596	G6PD_HUMAN	L75P	Disease
597	G6PD_HUMAN	R81C	Disease
598	G6PD_HUMAN	R81H	Neutral
599	G6PD_HUMAN	S106C	Disease
600	G6PD_HUMAN	L128P	Disease
601	G6PD_HUMAN	G131V	Disease
602	G6PD_HUMAN	E156K	Neutral
603	G6PD_HUMAN	G163D	Disease
604	G6PD_HUMAN	G163S	Neutral
605	G6PD_HUMAN	N165D	Neutral
606	G6PD_HUMAN	R166H	Neutral
607	G6PD_HUMAN	D176G	Disease
608	G6PD_HUMAN	D181V	Disease

609	G6PD_HUMAN	R182W	Disease
610	G6PD_HUMAN	S188F	Disease
611	G6PD_HUMAN	R198C	Disease
612	G6PD_HUMAN	M212V	Neutral
613	G6PD_HUMAN	V213L	Neutral
614	G6PD_HUMAN	F216L	Neutral
615	G6PD_HUMAN	R227L	Disease
616	G6PD_HUMAN	R227Q	Neutral
617	G6PD_HUMAN	R257G	Disease
618	G6PD_HUMAN	E274K	Neutral
619	G6PD_HUMAN	S278F	Disease
620	G6PD_HUMAN	T279S	Neutral
621	G6PD_HUMAN	D282H	Neutral
622	G6PD_HUMAN	R285H	Neutral
623	G6PD_HUMAN	V291M	Neutral
624	G6PD_HUMAN	E317K	Neutral
625	G6PD_HUMAN	Y322H	Disease
626	G6PD_HUMAN	L323P	Disease
627	G6PD_HUMAN	A335T	Neutral
628	G6PD_HUMAN	L342F	Neutral
629	G6PD_HUMAN	P353S	Neutral
630	G6PD_HUMAN	N363K	Disease
631	G6PD_HUMAN	C385R	Disease
632	G6PD_HUMAN	K386E	Neutral
633	G6PD_HUMAN	R387H	Neutral
634	G6PD_HUMAN	R393H	Neutral
635	G6PD_HUMAN	P396L	Disease
636	G6PD_HUMAN	E398K	Neutral
637	G6PD_HUMAN	G410C	Disease
638	G6PD_HUMAN	E416K	Neutral
639	G6PD_HUMAN	L440F	Neutral
640	G6PD_HUMAN	G447R	Disease
641	G6PD_HUMAN	Q449H	Neutral
642	G6PD_HUMAN	R454C	Disease
643	G6PD_HUMAN	R454H	Neutral
644	G6PD_HUMAN	R459L	Disease
645	G6PD_HUMAN	R459P	Disease
646	G6PD_HUMAN	R463H	Neutral
647	G6PD_HUMAN	G488V	Disease
648	GBRB3_HUMAN	R217H	Neutral
649	GCH1_HUMAN	G15D	Disease
650	GCR_HUMAN	V571A	Neutral
651	GCSP_HUMAN	P329T	Disease
652	GDF6_HUMAN	A249E	Neutral
653	GDF6_HUMAN	L289P	Neutral
654	GFRA1_HUMAN	L371R	Neutral
655	GLCM_HUMAN	H350R	Disease

656	GLCM_HUMAN	V437F	Disease
657	GLPA_HUMAN	S20L	Neutral
658	GLPA_HUMAN	G24E	Neutral
659	GLPB_HUMAN	T22S	Neutral
660	GLPB_HUMAN	R54H	Neutral
661	GLPB_HUMAN	P58R	Neutral
662	GLPC_HUMAN	N8S	Neutral
663	GLPC_HUMAN	L14F	Neutral
664	GLPC_HUMAN	A23S	Neutral
665	GNAS2_HUMAN	I106S	Disease
666	GNAS2_HUMAN	Q227H	Disease
667	GP1BA_HUMAN	G249S	Neutral
668	GP1BA_HUMAN	G249V	Neutral
669	GP1BA_HUMAN	M255V	Neutral
670	GPX2_HUMAN	A37L	Neutral
671	GRIA2_HUMAN	Q607R	Neutral
672	GRIK1_HUMAN	Q636R	Neutral
673	GRIK2_HUMAN	I567V	Neutral
674	GRIK2_HUMAN	Y571C	Neutral
675	GRIK2_HUMAN	Q621R	Neutral
676	GRIK3_HUMAN	R352Q	Disease
677	GTR1_HUMAN	N34I	Neutral
678	GTR1_HUMAN	N34S	Disease
679	GTR1_HUMAN	S66F	Neutral
680	GTR1_HUMAN	G91D	Neutral
681	GTR1_HUMAN	R126C	Neutral
682	GTR1_HUMAN	R126H	Disease
683	GTR1_HUMAN	R126L	Neutral
684	GTR1_HUMAN	G130S	Disease
685	GTR1_HUMAN	E146K	Disease
686	GTR1_HUMAN	R153C	Neutral
687	GTR1_HUMAN	K256E	Disease
688	GTR1_HUMAN	T295M	Neutral
689	GTR1_HUMAN	T310I	Neutral
690	GTR1_HUMAN	R333W	Neutral
691	GTR2_HUMAN	V197I	Neutral
692	GYS1_HUMAN	G464S	Neutral
693	H1FNT_HUMAN	L108P	Neutral
694	H1FNT_HUMAN	R136S	Neutral
695	HAP1_HUMAN	M441T	Neutral
696	HBA_HUMAN	V2E	Neutral
697	HBA_HUMAN	L3R	Neutral
698	HBA_HUMAN	A6D	Neutral
699	HBA_HUMAN	A6P	Neutral
700	HBA_HUMAN	D7A	Neutral
701	HBA_HUMAN	D7G	Neutral
702	HBA_HUMAN	D7N	Neutral

703	HBA_HUMAN	D7V	Neutral
704	HBA_HUMAN	D7Y	Neutral
705	HBA_HUMAN	K8E	Neutral
706	HBA_HUMAN	N10T	Neutral
707	HBA_HUMAN	K12E	Neutral
708	HBA_HUMAN	A13D	Neutral
709	HBA_HUMAN	A14P	Neutral
710	HBA_HUMAN	W15R	Neutral
711	HBA_HUMAN	G16R	Neutral
712	HBA_HUMAN	K17M	Neutral
713	HBA_HUMAN	K17N	Neutral
714	HBA_HUMAN	G19D	Neutral
715	HBA_HUMAN	G19R	Neutral
716	HBA_HUMAN	A20D	Neutral
717	HBA_HUMAN	A20E	Neutral
718	HBA_HUMAN	H21Q	Neutral
719	HBA_HUMAN	H21R	Neutral
720	HBA_HUMAN	A22D	Neutral
721	HBA_HUMAN	A22P	Neutral
722	HBA_HUMAN	G23D	Neutral
723	HBA_HUMAN	E24G	Neutral
724	HBA_HUMAN	E24K	Neutral
725	HBA_HUMAN	Y25H	Neutral
726	HBA_HUMAN	A27E	Neutral
727	HBA_HUMAN	A27V	Neutral
728	HBA_HUMAN	E28D	Neutral
729	HBA_HUMAN	E28G	Neutral
730	HBA_HUMAN	E28V	Neutral
731	HBA_HUMAN	E31K	Neutral
732	HBA_HUMAN	R32K	Neutral
733	HBA_HUMAN	R32S	Neutral
734	HBA_HUMAN	L35R	Neutral
735	HBA_HUMAN	P38R	Neutral
736	HBA_HUMAN	K41M	Neutral
737	HBA_HUMAN	T42S	Neutral
738	HBA_HUMAN	F44L	Neutral
739	HBA_HUMAN	P45R	Neutral
740	HBA_HUMAN	H46Q	Neutral
741	HBA_HUMAN	H46R	Neutral
742	HBA_HUMAN	D48A	Neutral
743	HBA_HUMAN	D48G	Neutral
744	HBA_HUMAN	D48H	Neutral
745	HBA_HUMAN	D48Y	Neutral
746	HBA_HUMAN	L49R	Neutral
747	HBA_HUMAN	S50R	Neutral
748	HBA_HUMAN	H51R	Neutral
749	HBA_HUMAN	G52D	Neutral

750	HBA_HUMAN	G52R	Neutral
751	HBA_HUMAN	A54D	Neutral
752	HBA_HUMAN	Q55R	Neutral
753	HBA_HUMAN	K57R	Neutral
754	HBA_HUMAN	K57T	Neutral
755	HBA_HUMAN	G58R	Neutral
756	HBA_HUMAN	H59Q	Neutral
757	HBA_HUMAN	H59Y	Neutral
758	HBA_HUMAN	G60V	Neutral
759	HBA_HUMAN	K62N	Neutral
760	HBA_HUMAN	K62T	Neutral
761	HBA_HUMAN	V63M	Neutral
762	HBA_HUMAN	A64D	Neutral
763	HBA_HUMAN	D65Y	Neutral
764	HBA_HUMAN	A72E	Neutral
765	HBA_HUMAN	A72V	Neutral
766	HBA_HUMAN	H73R	Neutral
767	HBA_HUMAN	D75A	Neutral
768	HBA_HUMAN	D75G	Neutral
769	HBA_HUMAN	D75N	Neutral
770	HBA_HUMAN	D76A	Neutral
771	HBA_HUMAN	D76H	Neutral
772	HBA_HUMAN	M77K	Neutral
773	HBA_HUMAN	M77T	Neutral
774	HBA_HUMAN	P78R	Neutral
775	HBA_HUMAN	N79H	Neutral
776	HBA_HUMAN	N79K	Neutral
777	HBA_HUMAN	A80G	Neutral
778	HBA_HUMAN	L81R	Neutral
779	HBA_HUMAN	S82C	Neutral
780	HBA_HUMAN	A83D	Neutral
781	HBA_HUMAN	S85R	Neutral
782	HBA_HUMAN	D86V	Neutral
783	HBA_HUMAN	D86Y	Neutral
784	HBA_HUMAN	L87R	Neutral
785	HBA_HUMAN	H88N	Neutral
786	HBA_HUMAN	H88R	Neutral
787	HBA_HUMAN	A89S	Neutral
788	HBA_HUMAN	K91M	Neutral
789	HBA_HUMAN	R93Q	Neutral
790	HBA_HUMAN	R93W	Neutral
791	HBA_HUMAN	D95A	Neutral
792	HBA_HUMAN	D95Y	Neutral
793	HBA_HUMAN	P96A	Neutral
794	HBA_HUMAN	P96T	Neutral
795	HBA_HUMAN	N98K	Neutral
796	HBA_HUMAN	K100E	Neutral

797	HBA_HUMAN	H104R	Neutral
798	HBA_HUMAN	H104Y	Neutral
799	HBA_HUMAN	L110R	Neutral
800	HBA_HUMAN	A111D	Neutral
801	HBA_HUMAN	H113D	Neutral
802	HBA_HUMAN	L114H	Neutral
803	HBA_HUMAN	P115L	Neutral
804	HBA_HUMAN	P115R	Neutral
805	HBA_HUMAN	P115S	Neutral
806	HBA_HUMAN	A116D	Neutral
807	HBA_HUMAN	E117A	Neutral
808	HBA_HUMAN	A121E	Neutral
809	HBA_HUMAN	V122M	Neutral
810	HBA_HUMAN	H123Q	Neutral
811	HBA_HUMAN	L126P	Neutral
812	HBA_HUMAN	L126R	Neutral
813	HBA_HUMAN	D127G	Neutral
814	HBA_HUMAN	D127V	Neutral
815	HBA_HUMAN	D127Y	Neutral
816	HBA_HUMAN	K128N	Neutral
817	HBA_HUMAN	L130P	Neutral
818	HBA_HUMAN	A131D	Neutral
819	HBA_HUMAN	A131P	Neutral
820	HBA_HUMAN	S132P	Neutral
821	HBA_HUMAN	S134R	Neutral
822	HBA_HUMAN	V136E	Neutral
823	HBA_HUMAN	L137M	Neutral
824	HBA_HUMAN	L137P	Neutral
825	HBA_HUMAN	L137R	Neutral
826	HBA_HUMAN	S139P	Neutral
827	HBA_HUMAN	K140E	Neutral
828	HBA_HUMAN	K140T	Neutral
829	HBA_HUMAN	Y141H	Neutral
830	HBA_HUMAN	R142C	Neutral
831	HBA_HUMAN	R142H	Neutral
832	HBA_HUMAN	R142L	Neutral
833	HBA_HUMAN	R142P	Neutral
834	HBB_HUMAN	V2A	Neutral
835	HBB_HUMAN	H3R	Neutral
836	HBB_HUMAN	H3Y	Neutral
837	HBB_HUMAN	E7A	Neutral
838	HBB_HUMAN	E7K	Neutral
839	HBB_HUMAN	E7Q	Neutral
840	HBB_HUMAN	E8K	Neutral
841	HBB_HUMAN	K9Q	Neutral
842	HBB_HUMAN	K9T	Neutral
843	HBB_HUMAN	S10C	Neutral

844	HBB_HUMAN	A11D	Neutral
845	HBB_HUMAN	A11V	Neutral
846	HBB_HUMAN	V12I	Neutral
847	HBB_HUMAN	L15P	Neutral
848	HBB_HUMAN	L15R	Neutral
849	HBB_HUMAN	W16R	Neutral
850	HBB_HUMAN	G17D	Neutral
851	HBB_HUMAN	G17R	Neutral
852	HBB_HUMAN	K18N	Neutral
853	HBB_HUMAN	K18Q	Neutral
854	HBB_HUMAN	N20D	Neutral
855	HBB_HUMAN	N20K	Neutral
856	HBB_HUMAN	N20S	Neutral
857	HBB_HUMAN	V21M	Neutral
858	HBB_HUMAN	D22G	Neutral
859	HBB_HUMAN	D22H	Neutral
860	HBB_HUMAN	D22N	Neutral
861	HBB_HUMAN	D22Y	Neutral
862	HBB_HUMAN	E23A	Neutral
863	HBB_HUMAN	E23G	Neutral
864	HBB_HUMAN	E23K	Neutral
865	HBB_HUMAN	E23Q	Neutral
866	HBB_HUMAN	E23V	Neutral
867	HBB_HUMAN	V24D	Neutral
868	HBB_HUMAN	V24F	Neutral
869	HBB_HUMAN	V24G	Neutral
870	HBB_HUMAN	G25D	Neutral
871	HBB_HUMAN	G25R	Neutral
872	HBB_HUMAN	G25V	Neutral
873	HBB_HUMAN	G26D	Neutral
874	HBB_HUMAN	G26R	Neutral
875	HBB_HUMAN	E27K	Neutral
876	HBB_HUMAN	E27V	Neutral
877	HBB_HUMAN	A28D	Neutral
878	HBB_HUMAN	A28S	Neutral
879	HBB_HUMAN	A28V	Neutral
880	HBB_HUMAN	L29P	Neutral
881	HBB_HUMAN	L29Q	Neutral
882	HBB_HUMAN	G30D	Neutral
883	HBB_HUMAN	R31S	Neutral
884	HBB_HUMAN	L32P	Neutral
885	HBB_HUMAN	L33R	Neutral
886	HBB_HUMAN	L33V	Neutral
887	HBB_HUMAN	V35D	Neutral
888	HBB_HUMAN	V35F	Neutral
889	HBB_HUMAN	V35L	Neutral
890	HBB_HUMAN	Y36F	Neutral

891	HBB_HUMAN	P37R	Neutral
892	HBB_HUMAN	P37S	Neutral
893	HBB_HUMAN	P37T	Neutral
894	HBB_HUMAN	W38G	Neutral
895	HBB_HUMAN	W38R	Neutral
896	HBB_HUMAN	W38S	Neutral
897	HBB_HUMAN	T39N	Neutral
898	HBB_HUMAN	Q40E	Neutral
899	HBB_HUMAN	Q40K	Neutral
900	HBB_HUMAN	Q40R	Neutral
901	HBB_HUMAN	F42Y	Neutral
902	HBB_HUMAN	F43L	Neutral
903	HBB_HUMAN	F43S	Neutral
904	HBB_HUMAN	E44Q	Neutral
905	HBB_HUMAN	S45C	Neutral
906	HBB_HUMAN	F46S	Neutral
907	HBB_HUMAN	G47E	Neutral
908	HBB_HUMAN	D48A	Neutral
909	HBB_HUMAN	D48G	Neutral
910	HBB_HUMAN	D48Y	Neutral
911	HBB_HUMAN	L49P	Neutral
912	HBB_HUMAN	S50F	Neutral
913	HBB_HUMAN	T51K	Neutral
914	HBB_HUMAN	P52R	Neutral
915	HBB_HUMAN	D53A	Neutral
916	HBB_HUMAN	D53H	Neutral
917	HBB_HUMAN	V55D	Neutral
918	HBB_HUMAN	M56K	Neutral
919	HBB_HUMAN	G57R	Neutral
920	HBB_HUMAN	N58K	Neutral
921	HBB_HUMAN	P59R	Neutral
922	HBB_HUMAN	K60E	Neutral
923	HBB_HUMAN	V61A	Neutral
924	HBB_HUMAN	K62E	Neutral
925	HBB_HUMAN	K62M	Neutral
926	HBB_HUMAN	K62N	Neutral
927	HBB_HUMAN	A63D	Neutral
928	HBB_HUMAN	A63P	Neutral
929	HBB_HUMAN	H64Y	Neutral
930	HBB_HUMAN	K66M	Neutral
931	HBB_HUMAN	K66N	Neutral
932	HBB_HUMAN	K66Q	Neutral
933	HBB_HUMAN	K67T	Neutral
934	HBB_HUMAN	V68A	Neutral
935	HBB_HUMAN	V68D	Neutral
936	HBB_HUMAN	V68M	Neutral
937	HBB_HUMAN	L69H	Neutral

938	HBB_HUMAN	L69P	Neutral
939	HBB_HUMAN	G70D	Neutral
940	HBB_HUMAN	G70R	Neutral
941	HBB_HUMAN	G70S	Neutral
942	HBB_HUMAN	A71D	Neutral
943	HBB_HUMAN	F72S	Neutral
944	HBB_HUMAN	D74G	Neutral
945	HBB_HUMAN	D74V	Neutral
946	HBB_HUMAN	D74Y	Neutral
947	HBB_HUMAN	G75R	Neutral
948	HBB_HUMAN	G75V	Neutral
949	HBB_HUMAN	L76P	Neutral
950	HBB_HUMAN	L76R	Neutral
951	HBB_HUMAN	A77D	Neutral
952	HBB_HUMAN	H78D	Neutral
953	HBB_HUMAN	H78R	Neutral
954	HBB_HUMAN	H78Y	Neutral
955	HBB_HUMAN	L79R	Neutral
956	HBB_HUMAN	D80Y	Neutral
957	HBB_HUMAN	N81K	Neutral
958	HBB_HUMAN	L82H	Neutral
959	HBB_HUMAN	L82R	Neutral
960	HBB_HUMAN	K83M	Neutral
961	HBB_HUMAN	K83N	Neutral
962	HBB_HUMAN	G84D	Neutral
963	HBB_HUMAN	G84R	Neutral
964	HBB_HUMAN	T85I	Neutral
965	HBB_HUMAN	A87D	Neutral
966	HBB_HUMAN	T88I	Neutral
967	HBB_HUMAN	T88K	Neutral
968	HBB_HUMAN	T88P	Neutral
969	HBB_HUMAN	L89P	Neutral
970	HBB_HUMAN	L89R	Neutral
971	HBB_HUMAN	S90N	Neutral
972	HBB_HUMAN	S90R	Neutral
973	HBB_HUMAN	E91D	Neutral
974	HBB_HUMAN	E91K	Neutral
975	HBB_HUMAN	L92P	Neutral
976	HBB_HUMAN	L92R	Neutral
977	HBB_HUMAN	H93D	Neutral
978	HBB_HUMAN	H93N	Neutral
979	HBB_HUMAN	H93P	Neutral
980	HBB_HUMAN	H93Q	Neutral
981	HBB_HUMAN	C94R	Neutral
982	HBB_HUMAN	D95G	Neutral
983	HBB_HUMAN	D95H	Neutral
984	HBB_HUMAN	D95N	Neutral

985	HBB_HUMAN	K96M	Neutral
986	HBB_HUMAN	K96N	Neutral
987	HBB_HUMAN	L97P	Neutral
988	HBB_HUMAN	L97V	Neutral
989	HBB_HUMAN	H98L	Neutral
990	HBB_HUMAN	H98P	Neutral
991	HBB_HUMAN	H98Q	Neutral
992	HBB_HUMAN	H98Y	Neutral
993	HBB_HUMAN	V99G	Neutral
994	HBB_HUMAN	D100E	Neutral
995	HBB_HUMAN	P101L	Neutral
996	HBB_HUMAN	P101R	Neutral
997	HBB_HUMAN	E102D	Neutral
998	HBB_HUMAN	E102G	Neutral
999	HBB_HUMAN	E102K	Neutral
1000	HBB_HUMAN	E102Q	Neutral
1001	HBB_HUMAN	N103S	Neutral
1002	HBB_HUMAN	N103Y	Neutral
1003	HBB_HUMAN	F104L	Neutral
1004	HBB_HUMAN	R105S	Neutral
1005	HBB_HUMAN	R105T	Neutral
1006	HBB_HUMAN	G108R	Neutral
1007	HBB_HUMAN	N109K	Neutral
1008	HBB_HUMAN	V110M	Neutral
1009	HBB_HUMAN	L111P	Neutral
1010	HBB_HUMAN	V112A	Neutral
1011	HBB_HUMAN	C113F	Neutral
1012	HBB_HUMAN	C113R	Neutral
1013	HBB_HUMAN	C113Y	Neutral
1014	HBB_HUMAN	L115M	Neutral
1015	HBB_HUMAN	L115P	Neutral
1016	HBB_HUMAN	A116D	Neutral
1017	HBB_HUMAN	A116P	Neutral
1018	HBB_HUMAN	H117L	Neutral
1019	HBB_HUMAN	H117Q	Neutral
1020	HBB_HUMAN	H118P	Neutral
1021	HBB_HUMAN	H118R	Neutral
1022	HBB_HUMAN	H118Y	Neutral
1023	HBB_HUMAN	G120A	Neutral
1024	HBB_HUMAN	K121E	Neutral
1025	HBB_HUMAN	K121I	Neutral
1026	HBB_HUMAN	K121Q	Neutral
1027	HBB_HUMAN	E122A	Neutral
1028	HBB_HUMAN	E122G	Neutral
1029	HBB_HUMAN	E122K	Neutral
1030	HBB_HUMAN	E122Q	Neutral
1031	HBB_HUMAN	E122V	Neutral

1032	HBB_HUMAN	T124I	Neutral
1033	HBB_HUMAN	P125Q	Neutral
1034	HBB_HUMAN	P125R	Neutral
1035	HBB_HUMAN	P125S	Neutral
1036	HBB_HUMAN	V127A	Neutral
1037	HBB_HUMAN	V127E	Neutral
1038	HBB_HUMAN	V127G	Neutral
1039	HBB_HUMAN	Q128E	Neutral
1040	HBB_HUMAN	Q128K	Neutral
1041	HBB_HUMAN	A129D	Neutral
1042	HBB_HUMAN	A130P	Neutral
1043	HBB_HUMAN	A130V	Neutral
1044	HBB_HUMAN	Y131D	Neutral
1045	HBB_HUMAN	Y131S	Neutral
1046	HBB_HUMAN	Q132E	Neutral
1047	HBB_HUMAN	Q132K	Neutral
1048	HBB_HUMAN	Q132P	Neutral
1049	HBB_HUMAN	Q132R	Neutral
1050	HBB_HUMAN	K133N	Neutral
1051	HBB_HUMAN	K133Q	Neutral
1052	HBB_HUMAN	V134L	Neutral
1053	HBB_HUMAN	V135E	Neutral
1054	HBB_HUMAN	A136E	Neutral
1055	HBB_HUMAN	A136P	Neutral
1056	HBB_HUMAN	G137D	Neutral
1057	HBB_HUMAN	A139P	Neutral
1058	HBB_HUMAN	N140D	Neutral
1059	HBB_HUMAN	N140K	Neutral
1060	HBB_HUMAN	N140S	Neutral
1061	HBB_HUMAN	N140Y	Neutral
1062	HBB_HUMAN	A141D	Neutral
1063	HBB_HUMAN	A141T	Neutral
1064	HBB_HUMAN	A141V	Neutral
1065	HBB_HUMAN	L142R	Neutral
1066	HBB_HUMAN	A143D	Neutral
1067	HBB_HUMAN	H144D	Neutral
1068	HBB_HUMAN	H144P	Neutral
1069	HBB_HUMAN	H144Q	Neutral
1070	HBB_HUMAN	H144R	Neutral
1071	HBB_HUMAN	K145E	Neutral
1072	HBB_HUMAN	Y146C	Neutral
1073	HBB_HUMAN	Y146H	Neutral
1074	HBB_HUMAN	H147D	Neutral
1075	HBB_HUMAN	H147L	Neutral
1076	HBB_HUMAN	H147P	Neutral
1077	HBB_HUMAN	H147Q	Neutral
1078	HBD_HUMAN	V2A	Neutral

1079	HBD_HUMAN	H3L	Neutral
1080	HBD_HUMAN	H3R	Neutral
1081	HBD_HUMAN	T5S	Neutral
1082	HBD_HUMAN	A11D	Neutral
1083	HBD_HUMAN	V12G	Neutral
1084	HBD_HUMAN	N13K	Neutral
1085	HBD_HUMAN	G17R	Neutral
1086	HBD_HUMAN	V21E	Neutral
1087	HBD_HUMAN	A23E	Neutral
1088	HBD_HUMAN	G25D	Neutral
1089	HBD_HUMAN	G26D	Neutral
1090	HBD_HUMAN	E27D	Neutral
1091	HBD_HUMAN	A28S	Neutral
1092	HBD_HUMAN	P37H	Neutral
1093	HBD_HUMAN	E44G	Neutral
1094	HBD_HUMAN	E44K	Neutral
1095	HBD_HUMAN	D48V	Neutral
1096	HBD_HUMAN	P52R	Neutral
1097	HBD_HUMAN	N58K	Neutral
1098	HBD_HUMAN	G70R	Neutral
1099	HBD_HUMAN	A71G	Neutral
1100	HBD_HUMAN	L76V	Neutral
1101	HBD_HUMAN	F86S	Neutral
1102	HBD_HUMAN	Q88K	Neutral
1103	HBD_HUMAN	L89V	Neutral
1104	HBD_HUMAN	E91V	Neutral
1105	HBD_HUMAN	C94G	Neutral
1106	HBD_HUMAN	V99M	Neutral
1107	HBD_HUMAN	D100N	Neutral
1108	HBD_HUMAN	R105S	Neutral
1109	HBD_HUMAN	R117C	Neutral
1110	HBD_HUMAN	R117H	Neutral
1111	HBD_HUMAN	N118D	Neutral
1112	HBD_HUMAN	E122V	Neutral
1113	HBD_HUMAN	Q126E	Neutral
1114	HBD_HUMAN	V134A	Neutral
1115	HBD_HUMAN	G137D	Neutral
1116	HBD_HUMAN	A141V	Neutral
1117	HBD_HUMAN	L142P	Neutral
1118	HBD_HUMAN	A143D	Neutral
1119	HBD_HUMAN	H147R	Neutral
1120	HBG1_HUMAN	H3Q	Neutral
1121	HBG1_HUMAN	E6K	Neutral
1122	HBG1_HUMAN	E7G	Neutral
1123	HBG1_HUMAN	E7Q	Neutral
1124	HBG1_HUMAN	T13R	Neutral
1125	HBG1_HUMAN	D23G	Neutral

1126	HBG1_HUMAN	G26R	Neutral
1127	HBG1_HUMAN	P37R	Neutral
1128	HBG1_HUMAN	W38G	Neutral
1129	HBG1_HUMAN	Q40R	Neutral
1130	HBG1_HUMAN	R41K	Neutral
1131	HBG1_HUMAN	D44N	Neutral
1132	HBG1_HUMAN	A54D	Neutral
1133	HBG1_HUMAN	K62E	Neutral
1134	HBG1_HUMAN	G73R	Neutral
1135	HBG1_HUMAN	D74H	Neutral
1136	HBG1_HUMAN	D74N	Neutral
1137	HBG1_HUMAN	D80N	Neutral
1138	HBG1_HUMAN	D81N	Neutral
1139	HBG1_HUMAN	D81Y	Neutral
1140	HBG1_HUMAN	H98R	Neutral
1141	HBG1_HUMAN	E122K	Neutral
1142	HBG1_HUMAN	A129T	Neutral
1143	HBG1_HUMAN	V135M	Neutral
1144	HBG2_HUMAN	G2C	Neutral
1145	HBG2_HUMAN	E6G	Neutral
1146	HBG2_HUMAN	D8N	Neutral
1147	HBG2_HUMAN	K9E	Neutral
1148	HBG2_HUMAN	K9Q	Neutral
1149	HBG2_HUMAN	T13R	Neutral
1150	HBG2_HUMAN	W16R	Neutral
1151	HBG2_HUMAN	G17R	Neutral
1152	HBG2_HUMAN	K18N	Neutral
1153	HBG2_HUMAN	N20K	Neutral
1154	HBG2_HUMAN	V21A	Neutral
1155	HBG2_HUMAN	E22K	Neutral
1156	HBG2_HUMAN	E22Q	Neutral
1157	HBG2_HUMAN	D23G	Neutral
1158	HBG2_HUMAN	D23V	Neutral
1159	HBG2_HUMAN	G26E	Neutral
1160	HBG2_HUMAN	E27K	Neutral
1161	HBG2_HUMAN	V35I	Neutral
1162	HBG2_HUMAN	T39P	Neutral
1163	HBG2_HUMAN	R41G	Neutral
1164	HBG2_HUMAN	R41K	Neutral
1165	HBG2_HUMAN	F42S	Neutral
1166	HBG2_HUMAN	S45R	Neutral
1167	HBG2_HUMAN	M56R	Neutral
1168	HBG2_HUMAN	K60E	Neutral
1169	HBG2_HUMAN	K60Q	Neutral
1170	HBG2_HUMAN	H64L	Neutral
1171	HBG2_HUMAN	H64Y	Neutral
1172	HBG2_HUMAN	K66N	Neutral

1173	HBG2_HUMAN	K67Q	Neutral
1174	HBG2_HUMAN	K67R	Neutral
1175	HBG2_HUMAN	G73R	Neutral
1176	HBG2_HUMAN	I76V	Neutral
1177	HBG2_HUMAN	H78R	Neutral
1178	HBG2_HUMAN	D81N	Neutral
1179	HBG2_HUMAN	H93Y	Neutral
1180	HBG2_HUMAN	D95N	Neutral
1181	HBG2_HUMAN	E102K	Neutral
1182	HBG2_HUMAN	K105N	Neutral
1183	HBG2_HUMAN	H118R	Neutral
1184	HBG2_HUMAN	F119L	Neutral
1185	HBG2_HUMAN	K121Q	Neutral
1186	HBG2_HUMAN	E122K	Neutral
1187	HBG2_HUMAN	E126A	Neutral
1188	HBG2_HUMAN	W131G	Neutral
1189	HBG2_HUMAN	H147Y	Neutral
1190	HCN4_HUMAN	D553N	Neutral
1191	HEM2_HUMAN	F12L	Disease
1192	HEXA_HUMAN	R247W	Disease
1193	HEXA_HUMAN	R249W	Disease
1194	HLF_HUMAN	I253F	Neutral
1195	HMG2_HUMAN	E7K	Neutral
1196	HNF1A_HUMAN	G191D	Disease
1197	HNF1A_HUMAN	W206C	Disease
1198	HNF1A_HUMAN	W206L	Disease
1199	HNF1A_HUMAN	N237S	Disease
1200	HNF1A_HUMAN	R244G	Disease
1201	HNF1A_HUMAN	F268C	Disease
1202	HNF1A_HUMAN	R272C	Disease
1203	HNF1A_HUMAN	K273E	Disease
1204	HNF1A_HUMAN	G319S	Disease
1205	HNF1A_HUMAN	R583Q	Disease
1206	HNF1B_HUMAN	S151P	Disease
1207	HNF1B_HUMAN	A241T	Disease
1208	HNF4A_HUMAN	V264M	Disease
1209	HPRT_HUMAN	C23W	Disease
1210	HPRT_HUMAN	D52G	Disease
1211	HPRT_HUMAN	H61R	Disease
1212	HPRT_HUMAN	V188A	Disease
1213	HRH3_HUMAN	A280V	Neutral
1214	HRP20_HUMAN	L65P	Neutral
1215	HSF4_HUMAN	R74H	Neutral
1216	HSF4_HUMAN	L115P	Neutral
1217	HSF4_HUMAN	R120C	Neutral
1218	HTRA2_HUMAN	R404W	Neutral
1219	HUWE1_HUMAN	R2981H	Neutral

1220	HUWE1_HUMAN	R4013W	Neutral
1221	HUWE1_HUMAN	R4187C	Neutral
1222	HV313_HUMAN	N54D	Neutral
1223	HXA2_HUMAN	Q186K	Neutral
1224	ICAM4_HUMAN	Q100R	Neutral
1225	IDUA_HUMAN	H82Q	Neutral
1226	IDUA_HUMAN	A300T	Disease
1227	IDUA_HUMAN	D315Y	Disease
1228	IFNA2_HUMAN	K46R	Neutral
1229	IFNA2_HUMAN	H57R	Neutral
1230	IFNB_HUMAN	C162Y	Neutral
1231	IGF1R_HUMAN	V105L	Neutral
1232	IGF1R_HUMAN	R138Q	Neutral
1233	IGF1R_HUMAN	K145N	Neutral
1234	IGF1R_HUMAN	R739Q	Neutral
1235	IGHG1_HUMAN	K97R	Neutral
1236	IGHG1_HUMAN	D239E	Neutral
1237	IGHG1_HUMAN	L241M	Neutral
1238	IGHG2_HUMAN	S60A	Neutral
1239	IGHG3_HUMAN	V214D	Neutral
1240	IGHG3_HUMAN	P221L	Neutral
1241	IGHG3_HUMAN	Y226F	Neutral
1242	IGHG3_HUMAN	T269A	Neutral
1243	IGHG3_HUMAN	S314N	Neutral
1244	IGHG3_HUMAN	F366Y	Neutral
1245	IGKC_HUMAN	V83L	Neutral
1246	INSR_HUMAN	K1095E	Disease
1247	INS_HUMAN	F48S	Neutral
1248	INS_HUMAN	F49L	Disease
1249	INS_HUMAN	V92L	Disease
1250	IRAK3_HUMAN	P22L	Neutral
1251	IRAK3_HUMAN	P111A	Neutral
1252	IRAK3_HUMAN	V134M	Neutral
1253	IRAK3_HUMAN	L400V	Neutral
1254	IRAK3_HUMAN	R429Q	Neutral
1255	IRS1_HUMAN	T608R	Neutral
1256	ITB3_HUMAN	T166I	Disease
1257	ITB3_HUMAN	P433A	Disease
1258	ITB3_HUMAN	R662C	Disease
1259	JAG1_HUMAN	V45L	Disease
1260	JAG1_HUMAN	N53D	Disease
1261	JAG1_HUMAN	K65M	Disease
1262	JAG1_HUMAN	R203K	Disease
1263	JAG1_HUMAN	C234Y	Disease
1264	JAG1_HUMAN	Y690D	Disease
1265	JAG1_HUMAN	H908Q	Disease
1266	JAG1_HUMAN	L921P	Disease

1267	JAG1_HUMAN	R1213Q	Disease
1268	JAK2_HUMAN	K539L	Disease
1269	K1C14_HUMAN	M119I	Disease
1270	KAD1_HUMAN	G40R	Neutral
1271	KAD1_HUMAN	G64R	Neutral
1272	KAD1_HUMAN	R128W	Neutral
1273	KAD1_HUMAN	Y164C	Neutral
1274	KCNA1_HUMAN	I400V	Disease
1275	KCNH2_HUMAN	R696C	Disease
1276	KCNH2_HUMAN	R784W	Disease
1277	KCNH2_HUMAN	R948C	Disease
1278	KCNK9_HUMAN	G236R	Neutral
1279	KCNQ3_HUMAN	N468S	Neutral
1280	KEAP1_HUMAN	D236H	Disease
1281	KEAP1_HUMAN	G333C	Disease
1282	KEAP1_HUMAN	G350S	Disease
1283	KELL_HUMAN	R180P	Neutral
1284	KELL_HUMAN	R248Q	Neutral
1285	KELL_HUMAN	E249K	Neutral
1286	KELL_HUMAN	R281Q	Neutral
1287	KELL_HUMAN	V302A	Neutral
1288	KELL_HUMAN	A322V	Neutral
1289	KELL_HUMAN	Q382R	Neutral
1290	KELL_HUMAN	R406Q	Neutral
1291	KELL_HUMAN	R492Q	Neutral
1292	KELL_HUMAN	E494V	Neutral
1293	KELL_HUMAN	H548R	Neutral
1294	KIF5A_HUMAN	K253N	Disease
1295	KIT_HUMAN	D816F	Disease
1296	KIT_HUMAN	D816H	Disease
1297	KIT_HUMAN	D820G	Disease
1298	KIT_HUMAN	N822K	Disease
1299	KIT_HUMAN	A829P	Neutral
1300	KIT_HUMAN	E839K	Disease
1301	KPCL_HUMAN	V374I	Neutral
1302	KPCL_HUMAN	T575A	Neutral
1303	LAC_HUMAN	A5N	Neutral
1304	LAC_HUMAN	S7T	Neutral
1305	LAC_HUMAN	S45G	Neutral
1306	LAC_HUMAN	T56K	Neutral
1307	LAC_HUMAN	R82K	Neutral
1308	LCAT_HUMAN	G95R	Disease
1309	LCAT_HUMAN	L396R	Disease
1310	LDHA_HUMAN	R315C	Neutral
1311	LDHB_HUMAN	K7E	Neutral
1312	LDHB_HUMAN	A35E	Neutral
1313	LDHB_HUMAN	G69E	Neutral

1314	LDHB_HUMAN	R107W	Neutral
1315	LDHB_HUMAN	S129R	Neutral
1316	LDHB_HUMAN	F171V	Neutral
1317	LDHB_HUMAN	R172H	Neutral
1318	LDHB_HUMAN	R172P	Neutral
1319	LDHB_HUMAN	M175L	Neutral
1320	LDHB_HUMAN	D322V	Neutral
1321	LDHB_HUMAN	W325R	Neutral
1322	LDLR_HUMAN	C27W	Disease
1323	LDLR_HUMAN	C52Y	Disease
1324	LDLR_HUMAN	W87G	Disease
1325	LDLR_HUMAN	D90G	Disease
1326	LDLR_HUMAN	D90Y	Disease
1327	LDLR_HUMAN	E101K	Disease
1328	LDLR_HUMAN	C109R	Disease
1329	LDLR_HUMAN	E140K	Disease
1330	LDLR_HUMAN	C155G	Disease
1331	LDLR_HUMAN	D168H	Disease
1332	LDLR_HUMAN	D172H	Disease
1333	LDLR_HUMAN	C173R	Disease
1334	LDLR_HUMAN	D175N	Disease
1335	LDLR_HUMAN	S177L	Disease
1336	LDLR_HUMAN	C197F	Disease
1337	LDLR_HUMAN	C197Y	Disease
1338	LDLR_HUMAN	D221G	Disease
1339	LDLR_HUMAN	D224G	Disease
1340	LDLR_HUMAN	D224N	Disease
1341	LDLR_HUMAN	S226P	Disease
1342	LDLR_HUMAN	D227E	Disease
1343	LDLR_HUMAN	E228K	Disease
1344	LDLR_HUMAN	E228Q	Disease
1345	LDLR_HUMAN	E240K	Disease
1346	LDLR_HUMAN	C248F	Disease
1347	LDLR_HUMAN	R253W	Disease
1348	LDLR_HUMAN	D256G	Disease
1349	LDLR_HUMAN	D266E	Disease
1350	LDLR_HUMAN	C270Y	Disease
1351	LDLR_HUMAN	S286R	Disease
1352	LDLR_HUMAN	D304E	Disease
1353	LDLR_HUMAN	D304N	Disease
1354	LDLR_HUMAN	S306L	Disease
1355	LDLR_HUMAN	C318F	Disease
1356	LDLR_HUMAN	C318Y	Disease
1357	LDLR_HUMAN	G335S	Disease
1358	LDLR_HUMAN	D342E	Disease
1359	LDLR_HUMAN	G343S	Disease
1360	LDLR_HUMAN	C352Y	Disease

1361	LDLR_HUMAN	D354G	Disease
1362	LDLR_HUMAN	D354V	Disease
1363	LDLR_HUMAN	E357K	Disease
1364	LDLR_HUMAN	C364R	Disease
1365	LDLR_HUMAN	C379R	Disease
1366	LDLR_HUMAN	L401H	Disease
1367	LDLR_HUMAN	R406Q	Disease
1368	LDLR_HUMAN	E408K	Disease
1369	LDLR_HUMAN	V429M	Disease
1370	LDLR_HUMAN	A431T	Disease
1371	LDLR_HUMAN	D433H	Disease
1372	LDLR_HUMAN	T434K	Disease
1373	LDLR_HUMAN	I441M	Disease
1374	LDLR_HUMAN	I441N	Disease
1375	LDLR_HUMAN	W443C	Disease
1376	LDLR_HUMAN	G478R	Disease
1377	LDLR_HUMAN	H485R	Disease
1378	LDLR_HUMAN	V523M	Disease
1379	LDLR_HUMAN	P526S	Disease
1380	LDLR_HUMAN	G546D	Disease
1381	LDLR_HUMAN	G549D	Disease
1382	LDLR_HUMAN	N564S	Disease
1383	LDLR_HUMAN	G565V	Disease
1384	LDLR_HUMAN	D579N	Disease
1385	LDLR_HUMAN	G592E	Disease
1386	LDLR_HUMAN	L599S	Disease
1387	LDLR_HUMAN	C667Y	Disease
1388	LDLR_HUMAN	C677R	Disease
1389	LDLR_HUMAN	L682P	Disease
1390	LDLR_HUMAN	P685L	Disease
1391	LDLR_HUMAN	P699L	Disease
1392	LDLR_HUMAN	T726I	Disease
1393	LDLR_HUMAN	I792F	Disease
1394	LDLR_HUMAN	V827I	Disease
1395	LDLR_HUMAN	Y828C	Disease
1396	LDLR_HUMAN	G844D	Disease
1397	LEP_HUMAN	R105W	Neutral
1398	LFTY2_HUMAN	S342N	Neutral
1399	LIPI_HUMAN	C55Y	Neutral
1400	LIPL_HUMAN	W113G	Disease
1401	LIPL_HUMAN	W113R	Disease
1402	LIPL_HUMAN	H163R	Neutral
1403	LIPL_HUMAN	G169E	Disease
1404	LIPL_HUMAN	G181S	Neutral
1405	LIPL_HUMAN	D183G	Disease
1406	LIPL_HUMAN	D183N	Neutral
1407	LIPL_HUMAN	P184R	Disease

1408	LIPL_HUMAN	A185T	Neutral
1409	LIPL_HUMAN	A203T	Neutral
1410	LIPL_HUMAN	D207E	Neutral
1411	LIPL_HUMAN	H210Q	Neutral
1412	LIPL_HUMAN	G215E	Disease
1413	LIPL_HUMAN	S220R	Disease
1414	LIPL_HUMAN	I221T	Disease
1415	LIPL_HUMAN	D231E	Neutral
1416	LIPL_HUMAN	I232S	Disease
1417	LIPL_HUMAN	C243S	Neutral
1418	LIPL_HUMAN	R270H	Neutral
1419	LIPL_HUMAN	S271T	Neutral
1420	LIPL_HUMAN	D277N	Neutral
1421	LIPL_HUMAN	S278C	Disease
1422	LIPL_HUMAN	S286G	Neutral
1423	LIPL_HUMAN	S286R	Disease
1424	LIPL_HUMAN	M328T	Disease
1425	LIPL_HUMAN	L330P	Disease
1426	LIPL_HUMAN	A361T	Neutral
1427	LIPL_HUMAN	E437K	Neutral
1428	LIPL_HUMAN	E437V	Disease
1429	LIRB3_HUMAN	Y400R	Neutral
1430	LMNA_HUMAN	T10I	Disease
1431	LMNA_HUMAN	E33D	Disease
1432	LMNA_HUMAN	E33G	Disease
1433	LMNA_HUMAN	Y45C	Disease
1434	LMNA_HUMAN	R50P	Disease
1435	LMNA_HUMAN	I63N	Disease
1436	LMNA_HUMAN	I63S	Disease
1437	LMNA_HUMAN	E65G	Disease
1438	LMNA_HUMAN	L140P	Disease
1439	LMNA_HUMAN	T150P	Disease
1440	LMNA_HUMAN	H222P	Disease
1441	LMNA_HUMAN	G232E	Disease
1442	LMNA_HUMAN	R249Q	Disease
1443	LMNA_HUMAN	K260N	Disease
1444	LMNA_HUMAN	Q294P	Disease
1445	LMNA_HUMAN	R336Q	Disease
1446	LMNA_HUMAN	R343Q	Disease
1447	LMNA_HUMAN	E358K	Disease
1448	LMNA_HUMAN	M371K	Disease
1449	LMNA_HUMAN	R386K	Disease
1450	LMNA_HUMAN	N456K	Disease
1451	LMNA_HUMAN	I469T	Disease
1452	LMNA_HUMAN	W520S	Disease
1453	LMNA_HUMAN	T528K	Disease
1454	LMNA_HUMAN	R541C	Disease

1455	LMNA_HUMAN	E578V	Disease
1456	LMNA_HUMAN	R644C	Disease
1457	LRP1B_HUMAN	R3157C	Neutral
1458	LRP5_HUMAN	T173M	Disease
1459	LRP5_HUMAN	Y1168H	Disease
1460	LRRK2_HUMAN	M712V	Neutral
1461	LRRK2_HUMAN	R1067Q	Disease
1462	LRRK2_HUMAN	R1728H	Disease
1463	LRRK2_HUMAN	R1728L	Disease
1464	LRRK2_HUMAN	T2141M	Neutral
1465	LRRK2_HUMAN	R2143H	Disease
1466	LRRK2_HUMAN	G2385R	Disease
1467	LRRK2_HUMAN	L2466H	Neutral
1468	MAPK3_HUMAN	E105A	Neutral
1469	MASP2_HUMAN	R99Q	Neutral
1470	MASP2_HUMAN	R118C	Neutral
1471	MASP2_HUMAN	D120G	Neutral
1472	MASP2_HUMAN	P126L	Neutral
1473	MATN3_HUMAN	T303M	Disease
1474	MBD5_HUMAN	T144I	Neutral
1475	MBD5_HUMAN	R461H	Neutral
1476	MBD5_HUMAN	D654E	Neutral
1477	MBD5_HUMAN	A655T	Neutral
1478	MBD5_HUMAN	A857T	Neutral
1479	MBD5_HUMAN	T1048I	Neutral
1480	MBL2_HUMAN	T24A	Neutral
1481	MC3R_HUMAN	I183N	Neutral
1482	MC3R_HUMAN	I335S	Neutral
1483	MC4R_HUMAN	T11A	Neutral
1484	MC4R_HUMAN	S30R	Neutral
1485	MC4R_HUMAN	S36Y	Neutral
1486	MC4R_HUMAN	V50M	Neutral
1487	MC4R_HUMAN	S58C	Neutral
1488	MC4R_HUMAN	N62S	Neutral
1489	MC4R_HUMAN	N97D	Neutral
1490	MC4R_HUMAN	I102S	Neutral
1491	MC4R_HUMAN	I102T	Neutral
1492	MC4R_HUMAN	L106P	Neutral
1493	MC4R_HUMAN	I125K	Neutral
1494	MC4R_HUMAN	R165W	Neutral
1495	MC4R_HUMAN	I170V	Neutral
1496	MC4R_HUMAN	A175T	Neutral
1497	MC4R_HUMAN	A219V	Neutral
1498	MC4R_HUMAN	V253I	Neutral
1499	MC4R_HUMAN	C271R	Neutral
1500	MC4R_HUMAN	C271Y	Neutral
1501	MC4R_HUMAN	N274S	Neutral

1502	MC4R_HUMAN	I316S	Neutral
1503	MC4R_HUMAN	L325F	Neutral
1504	MCHR1_HUMAN	G34R	Neutral
1505	MCHR1_HUMAN	R317Q	Neutral
1506	MCHR2_HUMAN	R63K	Neutral
1507	MCHR2_HUMAN	R152Q	Neutral
1508	MCR_HUMAN	A241V	Disease
1509	MCR_HUMAN	S810L	Disease
1510	MDR1_HUMAN	G185V	Neutral
1511	MDR3_HUMAN	I764L	Neutral
1512	MDR3_HUMAN	L1082Q	Disease
1513	MECP2_HUMAN	P388S	Disease
1514	MEFV_HUMAN	G138A	Disease
1515	MEFV_HUMAN	S702C	Disease
1516	MEN1_HUMAN	T557S	Disease
1517	MERL_HUMAN	L46R	Disease
1518	MERL_HUMAN	K79E	Disease
1519	MERL_HUMAN	L117I	Disease
1520	MERL_HUMAN	V219M	Disease
1521	MERL_HUMAN	L339F	Disease
1522	MERL_HUMAN	R418C	Disease
1523	MESP2_HUMAN	L125V	Neutral
1524	MET_HUMAN	T992I	Disease
1525	MINP1_HUMAN	Q270R	Neutral
1526	MIP_HUMAN	E134G	Neutral
1527	MIP_HUMAN	T138R	Neutral
1528	MKKS_HUMAN	T325P	Disease
1529	MLH1_HUMAN	M35N	Disease
1530	MLH1_HUMAN	D41H	Disease
1531	MLH1_HUMAN	G54E	Disease
1532	MLH1_HUMAN	G67E	Disease
1533	MLH1_HUMAN	C77Y	Disease
1534	MLH1_HUMAN	G98S	Disease
1535	MLH1_HUMAN	G101S	Disease
1536	MLH1_HUMAN	T116K	Disease
1537	MLH1_HUMAN	Y126N	Disease
1538	MLH1_HUMAN	D132H	Disease
1539	MLH1_HUMAN	N215S	Disease
1540	MLH1_HUMAN	I216S	Disease
1541	MLH1_HUMAN	L260F	Disease
1542	MLH1_HUMAN	L260R	Disease
1543	MLH1_HUMAN	R265C	Disease
1544	MLH1_HUMAN	E268G	Disease
1545	MLH1_HUMAN	E320D	Disease
1546	MLH1_HUMAN	R472I	Disease
1547	MLH1_HUMAN	R474W	Disease
1548	MLH1_HUMAN	A539D	Disease

1549	MLH1_HUMAN	L585R	Disease
1550	MLH1_HUMAN	D601G	Disease
1551	MLH1_HUMAN	A619P	Disease
1552	MLH1_HUMAN	P640L	Disease
1553	MLH1_HUMAN	F656S	Disease
1554	MLH1_HUMAN	W666R	Disease
1555	MLH1_HUMAN	R755W	Disease
1556	MLTK_HUMAN	A281T	Neutral
1557	MRP1_HUMAN	G671V	Neutral
1558	MRP4_HUMAN	Y556C	Neutral
1559	MRP4_HUMAN	V776I	Neutral
1560	MRP4_HUMAN	V854F	Neutral
1561	MRP4_HUMAN	I866V	Neutral
1562	MRP4_HUMAN	T1142M	Neutral
1563	MSH2_HUMAN	G40S	Disease
1564	MSH2_HUMAN	G203R	Disease
1565	MSH2_HUMAN	N331D	Disease
1566	MSH2_HUMAN	Q419K	Disease
1567	MSH2_HUMAN	V470E	Disease
1568	MSH2_HUMAN	D506Y	Disease
1569	MSH2_HUMAN	H610N	Disease
1570	MSH2_HUMAN	Y619C	Disease
1571	MSH2_HUMAN	R638G	Disease
1572	MSH2_HUMAN	Q645E	Disease
1573	MSH2_HUMAN	P696L	Disease
1574	MSH2_HUMAN	D748Y	Disease
1575	MSH2_HUMAN	H839Q	Disease
1576	MSH6_HUMAN	G54A	Neutral
1577	MSH6_HUMAN	K99N	Neutral
1578	MSH6_HUMAN	R128L	Neutral
1579	MSH6_HUMAN	S285I	Neutral
1580	MSH6_HUMAN	K295R	Neutral
1581	MSH6_HUMAN	Q522R	Neutral
1582	MSH6_HUMAN	G566R	Neutral
1583	MSH6_HUMAN	E619D	Neutral
1584	MSH6_HUMAN	P623L	Neutral
1585	MSH6_HUMAN	G685A	Neutral
1586	MSH6_HUMAN	I725M	Neutral
1587	MSH6_HUMAN	R772Q	Neutral
1588	MSH6_HUMAN	A787V	Neutral
1589	MSH6_HUMAN	V800A	Neutral
1590	MSH6_HUMAN	D803G	Neutral
1591	MSH6_HUMAN	Y850C	Neutral
1592	MSH6_HUMAN	R976H	Neutral
1593	MSH6_HUMAN	A1021D	Neutral
1594	MSH6_HUMAN	D1031V	Neutral
1595	MSH6_HUMAN	R1076C	Neutral

1596	MSH6_HUMAN	P1087T	Neutral
1597	MSH6_HUMAN	R1095H	Neutral
1598	MSH6_HUMAN	T1100M	Neutral
1599	MSH6_HUMAN	C1158R	Neutral
1600	MSH6_HUMAN	T1219I	Neutral
1601	MSH6_HUMAN	H1248D	Neutral
1602	MSH6_HUMAN	T1284M	Neutral
1603	MSH6_HUMAN	L1354Q	Neutral
1604	MSHR_HUMAN	I40T	Neutral
1605	MSHR_HUMAN	V122M	Neutral
1606	MSHR_HUMAN	T157I	Neutral
1607	MSHR_HUMAN	P159T	Neutral
1608	MSHR_HUMAN	L192M	Neutral
1609	MTMRE_HUMAN	R336Q	Neutral
1610	MTMRE_HUMAN	Y462C	Neutral
1611	MTUS1_HUMAN	T186S	Neutral
1612	MUSK_HUMAN	V790M	Neutral
1613	MUTYH_HUMAN	Y125H	Disease
1614	MUTYH_HUMAN	R179H	Neutral
1615	MUTYH_HUMAN	R238W	Neutral
1616	MYH2_HUMAN	V970I	Neutral
1617	MYH9_HUMAN	R1400W	Disease
1618	MYO15_HUMAN	T2205I	Neutral
1619	MYOC_HUMAN	K398R	Neutral
1620	MYP0_HUMAN	E56K	Disease
1621	MYP0_HUMAN	D61G	Disease
1622	MYP0_HUMAN	H81Y	Disease
1623	MYP0_HUMAN	V113F	Disease
1624	MYP0_HUMAN	V113I	Disease
1625	MYP0_HUMAN	Y119C	Disease
1626	MYPR_HUMAN	L46P	Disease
1627	MYPR_HUMAN	H148Y	Disease
1628	MYPR_HUMAN	V166G	Disease
1629	MYPR_HUMAN	L224I	Disease
1630	NAL14_HUMAN	R55E	Neutral
1631	NAL14_HUMAN	D86V	Neutral
1632	NAL14_HUMAN	A375T	Neutral
1633	NAL14_HUMAN	D522Q	Neutral
1634	NAL14_HUMAN	M1019I	Neutral
1635	NAR4_HUMAN	G108V	Neutral
1636	NAR4_HUMAN	T117I	Neutral
1637	NAR4_HUMAN	L300V	Neutral
1638	NAV3_HUMAN	E2200K	Neutral
1639	NDKA_HUMAN	S120G	Neutral
1640	NDUA1_HUMAN	G8R	Neutral
1641	NDUA1_HUMAN	R37S	Neutral
1642	NDUS1_HUMAN	R241W	Neutral

1643	NDUS1_HUMAN	D252G	Neutral
1644	NDUS2_HUMAN	R228Q	Neutral
1645	NDUS2_HUMAN	P229Q	Neutral
1646	NDUS2_HUMAN	S413P	Neutral
1647	NDUV1_HUMAN	E214K	Neutral
1648	NEIL1_HUMAN	S82C	Neutral
1649	NEIL1_HUMAN	G83D	Neutral
1650	NEIL1_HUMAN	C136R	Neutral
1651	NEIL1_HUMAN	I182M	Neutral
1652	NET1_HUMAN	R351H	Neutral
1653	NET1_HUMAN	K489E	Neutral
1654	NFL_HUMAN	E7K	Disease
1655	NK1R_HUMAN	Y192H	Neutral
1656	NOTC3_HUMAN	L1515P	Disease
1657	NPC1_HUMAN	W273S	Disease
1658	NPCL1_HUMAN	V55L	Neutral
1659	NPCL1_HUMAN	I1233N	Neutral
1660	NPHN_HUMAN	W64S	Neutral
1661	NPHN_HUMAN	I171N	Neutral
1662	NPHN_HUMAN	I173N	Neutral
1663	NPHN_HUMAN	G270C	Neutral
1664	NPHN_HUMAN	S350P	Neutral
1665	NPHN_HUMAN	S366R	Neutral
1666	NPHN_HUMAN	R367C	Neutral
1667	NPHN_HUMAN	P368S	Neutral
1668	NPHN_HUMAN	L376V	Neutral
1669	NPHN_HUMAN	E447K	Neutral
1670	NPHN_HUMAN	C465Y	Neutral
1671	NPHN_HUMAN	C528F	Neutral
1672	NPHN_HUMAN	L610Q	Neutral
1673	NPHN_HUMAN	C623F	Neutral
1674	NPHN_HUMAN	S724C	Neutral
1675	NPHN_HUMAN	R743C	Neutral
1676	NPHN_HUMAN	R802P	Neutral
1677	NPHN_HUMAN	R802W	Neutral
1678	NPHN_HUMAN	A806D	Neutral
1679	NPHN_HUMAN	D819V	Neutral
1680	NPHN_HUMAN	R831C	Neutral
1681	NPHN_HUMAN	R1140C	Neutral
1682	NR0B2_HUMAN	R216H	Neutral
1683	NTCP2_HUMAN	P290S	Neutral
1684	NU3M_HUMAN	S45P	Neutral
1685	NU5M_HUMAN	A236T	Neutral
1686	NU5M_HUMAN	M237L	Neutral
1687	NU5M_HUMAN	S250C	Neutral
1688	OPSD_HUMAN	G51A	Disease
1689	OPSD_HUMAN	V209M	Disease

1690	OPTN_HUMAN	K213H	Neutral
1691	OR7D4_HUMAN	P79L	Neutral
1692	OR7D4_HUMAN	R88W	Neutral
1693	PAX1_HUMAN	Q45H	Neutral
1694	PAX3_HUMAN	R273K	Disease
1695	PAX4_HUMAN	R45W	Neutral
1696	PAX4_HUMAN	R129W	Neutral
1697	PAX4_HUMAN	R141W	Neutral
1698	PAX6_HUMAN	P68S	Disease
1699	PAX6_HUMAN	P118R	Disease
1700	PAX6_HUMAN	A321T	Disease
1701	PAX6_HUMAN	Q378R	Disease
1702	PAX6_HUMAN	T391A	Disease
1703	PEO1_HUMAN	R303W	Disease
1704	PEO1_HUMAN	R334Q	Disease
1705	PEPA_HUMAN	L28F	Neutral
1706	PEPA_HUMAN	E58K	Neutral
1707	PEPA_HUMAN	V92L	Neutral
1708	PERQ2_HUMAN	N56S	Disease
1709	PEX12_HUMAN	S320F	Neutral
1710	PGK1_HUMAN	L88P	Disease
1711	PGK1_HUMAN	V266M	Neutral
1712	PGK1_HUMAN	D268N	Neutral
1713	PGK1_HUMAN	D315N	Disease
1714	PHX2A_HUMAN	P256Q	Neutral
1715	PHX2B_HUMAN	R100L	Neutral
1716	PHX2B_HUMAN	R141G	Neutral
1717	PHX2B_HUMAN	G197D	Neutral
1718	PINK1_HUMAN	L67F	Neutral
1719	PINK1_HUMAN	R68P	Disease
1720	PINK1_HUMAN	R98W	Neutral
1721	PINK1_HUMAN	I111S	Neutral
1722	PINK1_HUMAN	A124V	Neutral
1723	PINK1_HUMAN	K186N	Disease
1724	PINK1_HUMAN	E231G	Disease
1725	PINK1_HUMAN	T257I	Disease
1726	PINK1_HUMAN	R276Q	Neutral
1727	PINK1_HUMAN	P296L	Disease
1728	PINK1_HUMAN	V317I	Neutral
1729	PINK1_HUMAN	P322L	Disease
1730	PINK1_HUMAN	G395V	Neutral
1731	PINK1_HUMAN	P425S	Neutral
1732	PINK1_HUMAN	Y431H	Disease
1733	PINK1_HUMAN	I442T	Neutral
1734	PINK1_HUMAN	N451S	Neutral
1735	PINK1_HUMAN	E476K	Neutral
1736	PINK1_HUMAN	R501P	Neutral

1737	PINK1_HUMAN	D525N	Neutral
1738	PINK1_HUMAN	A537T	Neutral
1739	PINK1_HUMAN	C575R	Neutral
1740	PLMN_HUMAN	K38E	Neutral
1741	PLMN_HUMAN	L147P	Neutral
1742	PLMN_HUMAN	R532H	Disease
1743	PLMN_HUMAN	G751R	Neutral
1744	PPARG_HUMAN	V318M	Disease
1745	PPARG_HUMAN	P495L	Disease
1746	PRAP1_HUMAN	E54G	Neutral
1747	PRAP1_HUMAN	K69R	Neutral
1748	PRB3_HUMAN	P53C	Neutral
1749	PRIO_HUMAN	A117V	Disease
1750	PRIO_HUMAN	T183A	Neutral
1751	PRIO_HUMAN	T188K	Disease
1752	PROC_HUMAN	W14G	Disease
1753	PROC_HUMAN	R38W	Disease
1754	PROC_HUMAN	R42C	Disease
1755	PROC_HUMAN	R42H	Disease
1756	PROC_HUMAN	E49D	Disease
1757	PROC_HUMAN	R51C	Disease
1758	PROC_HUMAN	R57G	Disease
1759	PROC_HUMAN	R57Q	Disease
1760	PROC_HUMAN	G89C	Disease
1761	PROC_HUMAN	H108N	Disease
1762	PROC_HUMAN	G109R	Disease
1763	PROC_HUMAN	F118L	Disease
1764	PROC_HUMAN	C147Y	Disease
1765	PROC_HUMAN	H149P	Disease
1766	PROC_HUMAN	S161R	Disease
1767	PROC_HUMAN	C183R	Disease
1768	PROC_HUMAN	R189W	Disease
1769	PROC_HUMAN	R194C	Disease
1770	PROC_HUMAN	R211Q	Disease
1771	PROC_HUMAN	R220P	Disease
1772	PROC_HUMAN	Q226H	Disease
1773	PROC_HUMAN	H244Y	Disease
1774	PROC_HUMAN	H253Q	Disease
1775	PROC_HUMAN	L265F	Disease
1776	PROC_HUMAN	R271Q	Disease
1777	PROC_HUMAN	R271W	Disease
1778	PROC_HUMAN	S294N	Disease
1779	PROC_HUMAN	N298D	Disease
1780	PROC_HUMAN	A301T	Disease
1781	PROC_HUMAN	A301V	Disease
1782	PROC_HUMAN	A309T	Disease
1783	PROC_HUMAN	S312L	Disease

1784	PROC_HUMAN	S312P	Disease
1785	PROC_HUMAN	G343D	Disease
1786	PROC_HUMAN	M385I	Disease
1787	PROC_HUMAN	A388T	Disease
1788	PROC_HUMAN	A388V	Disease
1789	PROC_HUMAN	R394W	Disease
1790	PROC_HUMAN	G433S	Disease
1791	PROC_HUMAN	I445M	Disease
1792	PROD_HUMAN	A83V	Neutral
1793	PROD_HUMAN	R101Q	Neutral
1794	PROD_HUMAN	L205M	Neutral
1795	PROD_HUMAN	D342N	Neutral
1796	PROD_HUMAN	Q437E	Neutral
1797	PROS_HUMAN	S501P	Disease
1798	PRPH2_HUMAN	I32V	Disease
1799	PRPH2_HUMAN	R142W	Disease
1800	PRPH2_HUMAN	R172Q	Disease
1801	PRPH2_HUMAN	R172W	Disease
1802	PRPH2_HUMAN	R195L	Disease
1803	PRPH2_HUMAN	P219R	Disease
1804	PRPH2_HUMAN	E304Q	Disease
1805	PRPH2_HUMAN	G338D	Disease
1806	PSB8_HUMAN	G8R	Neutral
1807	PSN1_HUMAN	L235P	Disease
1808	PSPB_HUMAN	A228I	Neutral
1809	PSPB_HUMAN	A228R	Neutral
1810	PTEN_HUMAN	S10N	Disease
1811	PTEN_HUMAN	Y16C	Disease
1812	PTEN_HUMAN	G20E	Disease
1813	PTEN_HUMAN	Y27S	Disease
1814	PTEN_HUMAN	G36R	Disease
1815	PTEN_HUMAN	H61D	Disease
1816	PTEN_HUMAN	H61R	Disease
1817	PTEN_HUMAN	L112R	Disease
1818	PTEN_HUMAN	R130G	Disease
1819	PTEN_HUMAN	V133I	Disease
1820	PTEN_HUMAN	S170N	Disease
1821	PTEN_HUMAN	R173C	Disease
1822	PTEN_HUMAN	R173H	Disease
1823	PTEN_HUMAN	R173P	Disease
1824	PTEN_HUMAN	Y174N	Disease
1825	PTEN_HUMAN	V191A	Disease
1826	PTEN_HUMAN	S227F	Disease
1827	PTEN_HUMAN	G251C	Disease
1828	PTEN_HUMAN	T348I	Disease
1829	PTEN_HUMAN	V369G	Disease
1830	PTEN_HUMAN	T401I	Disease

1831	PTK6_HUMAN	L16F	Neutral
1832	PTN11_HUMAN	G60V	Neutral
1833	PTN11_HUMAN	F71L	Neutral
1834	P_HUMAN	V350M	Disease
1835	P_HUMAN	E678K	Disease
1836	P_HUMAN	L688F	Neutral
1837	RAF1_HUMAN	T260I	Disease
1838	RAG1_HUMAN	R410Q	Disease
1839	RAG1_HUMAN	V433M	Neutral
1840	RAG1_HUMAN	A444V	Neutral
1841	RAG1_HUMAN	R474H	Disease
1842	RAG1_HUMAN	W522C	Disease
1843	RAG1_HUMAN	H753L	Disease
1844	RAG1_HUMAN	R841W	Disease
1845	RAG1_HUMAN	N855I	Disease
1846	RAG1_HUMAN	Q981P	Disease
1847	RASF1_HUMAN	S135F	Neutral
1848	RASN_HUMAN	Q61K	Disease
1849	RBP2_HUMAN	T585M	Neutral
1850	RBP2_HUMAN	T653I	Neutral
1851	RBP2_HUMAN	I656V	Neutral
1852	RD3_HUMAN	G57V	Neutral
1853	RD3_HUMAN	K130M	Neutral
1854	RET4_HUMAN	I59N	Neutral
1855	RET4_HUMAN	G93D	Neutral
1856	RHCE_HUMAN	W16C	Neutral
1857	RHCE_HUMAN	A36T	Neutral
1858	RHCE_HUMAN	Q41R	Neutral
1859	RHCE_HUMAN	R154T	Neutral
1860	RHCE_HUMAN	Q233E	Neutral
1861	RHCE_HUMAN	M238V	Neutral
1862	RHD_HUMAN	L110P	Neutral
1863	RHD_HUMAN	F223V	Neutral
1864	RHD_HUMAN	V245L	Neutral
1865	RK_HUMAN	E136Q	Neutral
1866	RK_HUMAN	T298M	Disease
1867	RK_HUMAN	N330S	Neutral
1868	RK_HUMAN	R438H	Neutral
1869	RK_HUMAN	C514S	Neutral
1870	RK_HUMAN	M522T	Disease
1871	RK_HUMAN	S536L	Disease
1872	RL10_HUMAN	L206M	Neutral
1873	RL10_HUMAN	H213Q	Neutral
1874	RNAS2_HUMAN	H156N	Neutral
1875	RYR1_HUMAN	T4637I	Disease
1876	S22A1_HUMAN	C88R	Neutral
1877	S22A1_HUMAN	S189L	Neutral

1878	S22A1_HUMAN	G220V	Neutral
1879	S22A1_HUMAN	P283L	Neutral
1880	S22A1_HUMAN	R287G	Neutral
1881	S22A1_HUMAN	M440I	Neutral
1882	S22A2_HUMAN	M165I	Neutral
1883	S22AC_HUMAN	R284G	Disease
1884	S22AC_HUMAN	G290C	Disease
1885	S22AC_HUMAN	Q297E	Disease
1886	S22AC_HUMAN	I305S	Disease
1887	S26A2_HUMAN	Q454P	Disease
1888	S26A4_HUMAN	R24G	Disease
1889	S26A4_HUMAN	A104V	Disease
1890	S26A4_HUMAN	Q421R	Disease
1891	S26A4_HUMAN	F683S	Disease
1892	S28A1_HUMAN	E34G	Neutral
1893	S28A1_HUMAN	V189I	Neutral
1894	S28A1_HUMAN	N409S	Neutral
1895	S28A1_HUMAN	D521N	Neutral
1896	S28A3_HUMAN	G367R	Neutral
1897	S28A3_HUMAN	C602R	Neutral
1898	S40A1_HUMAN	G80S	Neutral
1899	S40A1_HUMAN	N174I	Disease
1900	S40A1_HUMAN	C326Y	Neutral
1901	S40A1_HUMAN	G490D	Disease
1902	S4A11_HUMAN	E399K	Neutral
1903	S4A11_HUMAN	G709E	Disease
1904	S4A11_HUMAN	T754M	Neutral
1905	S5A2_HUMAN	R227Q	Disease
1906	SAA_HUMAN	V70A	Neutral
1907	SAA_HUMAN	A75V	Neutral
1908	SAA_HUMAN	D78N	Neutral
1909	SAA_HUMAN	H89R	Neutral
1910	SAA_HUMAN	G90D	Neutral
1911	SAA_HUMAN	E102K	Neutral
1912	SAA_HUMAN	K108R	Neutral
1913	SC5A5_HUMAN	T536Q	Disease
1914	SC5A5_HUMAN	S556Q	Disease
1915	SC6A5_HUMAN	A89E	Disease
1916	SC6A8_HUMAN	G87R	Neutral
1917	SC6A8_HUMAN	G381R	Neutral
1918	SC6A8_HUMAN	P390L	Neutral
1919	SC6A8_HUMAN	P554L	Neutral
1920	SCN1A_HUMAN	T226M	Disease
1921	SCN1A_HUMAN	R393C	Disease
1922	SCN1A_HUMAN	A395P	Disease
1923	SCN1A_HUMAN	V422E	Disease
1924	SCN1A_HUMAN	R542Q	Disease

1925	SCN1A_HUMAN	S626G	Disease
1926	SCN1A_HUMAN	M973V	Disease
1927	SCN1A_HUMAN	I1034T	Disease
1928	SCN1A_HUMAN	F1038L	Disease
1929	SCN1A_HUMAN	G1480V	Disease
1930	SCN1A_HUMAN	F1543S	Disease
1931	SCN1A_HUMAN	R1596C	Disease
1932	SCN1A_HUMAN	R1636Q	Disease
1933	SCN1A_HUMAN	R1657H	Disease
1934	SCN1A_HUMAN	I1955T	Disease
1935	SCN1A_HUMAN	E1957G	Disease
1936	SCN2A_HUMAN	R1902T	Disease
1937	SCN5A_HUMAN	M138I	Disease
1938	SCN5A_HUMAN	V232I	Disease
1939	SCN5A_HUMAN	R376H	Disease
1940	SCN5A_HUMAN	E428K	Disease
1941	SCN5A_HUMAN	H445D	Disease
1942	SCN5A_HUMAN	N470K	Disease
1943	SCN5A_HUMAN	R481W	Disease
1944	SCN5A_HUMAN	E655K	Disease
1945	SCN5A_HUMAN	T1131I	Disease
1946	SCN5A_HUMAN	R1826C	Disease
1947	SCN5A_HUMAN	M1875T	Disease
1948	SCN5A_HUMAN	V1951M	Disease
1949	SCNNB_HUMAN	R563Q	Disease
1950	SELN_HUMAN	G273E	Neutral
1951	SELN_HUMAN	H293R	Neutral
1952	SELN_HUMAN	G315S	Neutral
1953	SELN_HUMAN	N340I	Neutral
1954	SELN_HUMAN	W453S	Neutral
1955	SELN_HUMAN	C462G	Neutral
1956	SELN_HUMAN	R466Q	Neutral
1957	SGCB_HUMAN	Q11E	Disease
1958	SGCB_HUMAN	S114F	Disease
1959	SGCB_HUMAN	G139D	Disease
1960	SGCB_HUMAN	T182A	Disease
1961	SGCB_HUMAN	Y184C	Disease
1962	SH21A_HUMAN	S57P	Disease
1963	SHIP1_HUMAN	V685E	Neutral
1964	SHIP2_HUMAN	L632I	Neutral
1965	SHIP2_HUMAN	N982S	Neutral
1966	SHPS1_HUMAN	I52A	Neutral
1967	SHPS1_HUMAN	H54E	Neutral
1968	SHPS1_HUMAN	E100N	Neutral
1969	SHPS1_HUMAN	E100T	Neutral
1970	SHPS1_HUMAN	T131V	Neutral
1971	SHPS1_HUMAN	Q162D	Neutral

1972	SHPS1_HUMAN	A485L	Neutral
1973	SNAT_HUMAN	A129T	Neutral
1974	SO1B1_HUMAN	F73L	Neutral
1975	SO1B1_HUMAN	V82A	Neutral
1976	SO1B1_HUMAN	P155T	Neutral
1977	SO1B1_HUMAN	E156G	Neutral
1978	SO1B1_HUMAN	V174A	Neutral
1979	SO1B1_HUMAN	L193R	Neutral
1980	SO1B1_HUMAN	I353T	Neutral
1981	SO1B1_HUMAN	G488A	Neutral
1982	SO1B1_HUMAN	D655G	Neutral
1983	SP100_HUMAN	S471P	Neutral
1984	SPR1B_HUMAN	Q23H	Neutral
1985	SPR1B_HUMAN	V61L	Neutral
1986	SPR1B_HUMAN	A80P	Neutral
1987	SPTA1_HUMAN	A2024G	Disease
1988	SPTB1_HUMAN	W202R	Disease
1989	SSDH_HUMAN	G36R	Disease
1990	SSDH_HUMAN	A237S	Disease
1991	ST38L_HUMAN	G99A	Neutral
1992	STF1_HUMAN	C33S	Neutral
1993	STF1_HUMAN	G35E	Disease
1994	STF1_HUMAN	R84H	Neutral
1995	STF1_HUMAN	R92Q	Neutral
1996	STK36_HUMAN	P1185S	Neutral
1997	TAU_HUMAN	D285N	Disease
1998	TAU_HUMAN	V289A	Disease
1999	TAU_HUMAN	K574T	Disease
2000	TAU_HUMAN	S637F	Disease
2001	TAU_HUMAN	S669L	Disease
2002	TAU_HUMAN	K686I	Disease
2003	TAU_HUMAN	G706R	Disease
2004	TAU_HUMAN	R723W	Disease
2005	TAZ_HUMAN	C118R	Disease
2006	TAZ_HUMAN	G197R	Disease
2007	TECTA_HUMAN	C1837G	Disease
2008	TECTA_HUMAN	Y1870C	Disease
2009	TECTA_HUMAN	R2021H	Disease
2010	TENC1_HUMAN	S353T	Neutral
2011	TENX_HUMAN	R29W	Neutral
2012	TENX_HUMAN	V1195M	Neutral
2013	TERT_HUMAN	A202T	Neutral
2014	TERT_HUMAN	V694M	Neutral
2015	TERT_HUMAN	Y772C	Neutral
2016	TERT_HUMAN	R865H	Neutral
2017	TERT_HUMAN	V1090M	Neutral
2018	TFF1_HUMAN	V46I	Disease

2019	TGFR1_HUMAN	N267H	Disease
2020	THRB_HUMAN	E72G	Neutral
2021	THRB_HUMAN	E200K	Neutral
2022	THRB_HUMAN	R314C	Neutral
2023	THRB_HUMAN	R314H	Neutral
2024	THRB_HUMAN	M380T	Neutral
2025	THRB_HUMAN	R425C	Neutral
2026	THRB_HUMAN	R431H	Neutral
2027	THRB_HUMAN	R461W	Neutral
2028	THRB_HUMAN	E509A	Neutral
2029	THRB_HUMAN	G601V	Neutral
2030	THYG_HUMAN	S604D	Neutral
2031	TMPS3_HUMAN	D103G	Neutral
2032	TMPS3_HUMAN	R109W	Neutral
2033	TMPS3_HUMAN	C194F	Neutral
2034	TMPS3_HUMAN	R216L	Neutral
2035	TMPS3_HUMAN	W251C	Neutral
2036	TMPS3_HUMAN	P404L	Neutral
2037	TMPS3_HUMAN	C407R	Neutral
2038	TNNC1_HUMAN	L29Q	Disease
2039	TOP2A_HUMAN	R450Q	Neutral
2040	TOP2A_HUMAN	R487K	Neutral
2041	TPIS_HUMAN	G123R	Disease
2042	TR10D_HUMAN	P35S	Neutral
2043	TR10D_HUMAN	S310L	Neutral
2044	TREX1_HUMAN	A213V	Neutral
2045	TREX1_HUMAN	G282S	Neutral
2046	TREX1_HUMAN	R295S	Neutral
2047	TREX1_HUMAN	A302P	Disease
2048	TREX1_HUMAN	P345L	Disease
2049	TREX1_HUMAN	Y360C	Neutral
2050	TREX1_HUMAN	G361A	Disease
2051	TRUA_HUMAN	R144W	Neutral
2052	TRYA1_HUMAN	R15P	Neutral
2053	TSCOT_HUMAN	A366V	Neutral
2054	TSHR_HUMAN	D36H	Disease
2055	TSHR_HUMAN	S425I	Disease
2056	TSHR_HUMAN	L512Q	Disease
2057	TSHR_HUMAN	A593N	Disease
2058	TSHR_HUMAN	P639A	Disease
2059	TSHR_HUMAN	V656F	Disease
2060	TTHY_HUMAN	F53C	Disease
2061	TTHY_HUMAN	V114A	Disease
2062	TTHY_HUMAN	A129T	Disease
2063	TTHY_HUMAN	Y136V	Disease
2064	TTHY_HUMAN	T139M	Disease
2065	TYDP1_HUMAN	P566L	Neutral

2066	TYRO_HUMAN	R52I	Disease
2067	TYRO_HUMAN	E294K	Disease
2068	TYRO_HUMAN	L312V	Disease
2069	TYRO_HUMAN	P313R	Disease
2070	TYRO_HUMAN	F340L	Disease
2071	TYRO_HUMAN	H367Y	Disease
2072	TYRO_HUMAN	H404P	Disease
2073	UCHL1_HUMAN	I93M	Neutral
2074	UCP3_HUMAN	R70W	Neutral
2075	UD14_HUMAN	L132P	Neutral
2076	UD14_HUMAN	Q332R	Neutral
2077	UD14_HUMAN	S376F	Neutral
2078	UD14_HUMAN	Y487D	Neutral
2079	UROM_HUMAN	C148W	Disease
2080	UROM_HUMAN	C150S	Disease
2081	UROM_HUMAN	C315R	Disease
2082	UROM_HUMAN	C317Y	Disease
2083	UT1_HUMAN	S291P	Neutral
2084	V2R_HUMAN	Y280C	Disease
2085	V2R_HUMAN	A285P	Disease
2086	VDR_HUMAN	G33D	Neutral
2087	VDR_HUMAN	H35Q	Neutral
2088	VDR_HUMAN	K45E	Neutral
2089	VDR_HUMAN	G46D	Neutral
2090	VDR_HUMAN	F47I	Neutral
2091	VDR_HUMAN	R50Q	Neutral
2092	VDR_HUMAN	R73Q	Neutral
2093	VDR_HUMAN	R80Q	Neutral
2094	VDR_HUMAN	R274L	Neutral
2095	VDR_HUMAN	H305Q	Neutral
2096	VDR_HUMAN	I314S	Neutral
2097	VDR_HUMAN	R391C	Neutral
2098	VGFR3_HUMAN	P641S	Neutral
2099	VHL_HUMAN	F91L	Disease
2100	VHL_HUMAN	G104A	Disease
2101	VHL_HUMAN	L135F	Disease
2102	VSX1_HUMAN	P247R	Disease
2103	VWF_HUMAN	T791M	Disease
2104	VWF_HUMAN	R816W	Disease
2105	VWF_HUMAN	R854Q	Disease
2106	WASP_HUMAN	L27F	Disease
2107	WASP_HUMAN	T48I	Disease
2108	WASP_HUMAN	A56V	Disease
2109	WASP_HUMAN	P58R	Disease
2110	WASP_HUMAN	V75M	Disease
2111	WASP_HUMAN	Y83C	Disease
2112	WASP_HUMAN	A236E	Disease

2113	WASP_HUMAN	R477K	Disease
2114	WASP_HUMAN	I481N	Disease
2115	WDR36_HUMAN	L25P	Neutral
2116	WDR36_HUMAN	A163V	Neutral
2117	WDR36_HUMAN	Y216P	Neutral
2118	WFS1_HUMAN	R653C	Disease
2119	WFS1_HUMAN	E864K	Neutral
2120	WT1_HUMAN	S273G	Disease
2121	WT1_HUMAN	F364L	Disease
2122	WT1_HUMAN	G379C	Disease
2123	WT1_HUMAN	C388R	Disease
2124	WT1_HUMAN	H397P	Disease
2125	ZBT16_HUMAN	M617V	Neutral
2126	ZIC3_HUMAN	P217A	Disease
2127	ZN276_HUMAN	R275W	Neutral