

Supplemental Table 3. The List of 216 Wilson Disease Patients

Patient	Gender	Age	Variant1	Variant2	Zygoty	[ATP7B 1056] pmol/L	[ATP7B 887] pmol/L	CPL (mg/dl)	Liver Copper (ug/g of tissue)	Leipzig Score	KF Ring	Presentation	[ADA 93] pmol/L	[CD42 128] pmol/L	[IDUA 462] pmol/L
1	M	NA	p.A874V	p.A874V	Homo	145	9.1	4	-	8	Y	B*	2465.3	5532.0	53.7
2	F	9	p.G1089E	p.G1089E	Homo	ND	ND	2	-	8	Y	H*	2317.7	6899.4	28.0
3	M	18	p.G1335E	p.G1335E	Homo	ND	ND	<2	-	6	Y	N	1536.3	3763.4	22.7
4	M	12	p.G1341D	p.G1341D	Homo	ND	ND	2	-	6	N	H	2080.0	17457.1	22.4
5	M	14	p.G1341D	p.G1341D	Homo	ND	ND	-	-	4	N	H	2910.3	18932.6	31.7
6	M	18	p.G1341D	p.G1341D	Homo	ND	ND	-	-	4	N	H	5750.0	18816.0	13.8
7	M	7	p.G1341D	p.G1341D	Homo	ND	ND	-	-	4	N	H	3513.7	8901.7	15.1
8	M	17	p.G1341D	p.G1341D	Homo	ND	ND	13	-	6	N	H	3098.0	6265.3	18.8
9	F	15	p.G1341E	p.G1341E	Homo	2.2	ND	1.4	-	6	N	H	2652.9	17779.4	43.2
10	M	34	p.G710S	p.G710S	Homo	120.4	155.3	<9	-	8	Y	N	2549.7	7705.1	42.2
11	M	17	p.G710S	p.G710S	Homo	193.2	264.3	12	-	10	Y	B*	2136.3	9068.6	22.4
12	F	44*	p.G710S	p.G710S	Homo	151.1	193.6	9.1	164	11	Y	N	1872.3	12139.4	20.8
13	M	19	p.G710S	p.G710S	Homo	252.4	381.7	20.7	1243	8	Y	B	2324.9	19051.4	47.1
14	M	6	p.H1069Q	p.H1069Q	Homo	ND	17.2	17	-	5	N	H	3844.3	25490.3	28.1
15	M	NA	p.H1069Q	p.H1069Q	Homo	ND	23.9	6.6	-	10	Y	B	1774.6	11341.7	26.7
16	M	NA	p.H1069Q	p.H1069Q	Homo	ND	19.3	NA	-	4	-	-	2088.0	12480.0	25.6
17	F	35	p.H1069Q	p.H1069Q	Homo	ND	42.8	15	-	9	Y	B*	2469.4	9768.0	35.7
18	F	NA	p.H1069Q	p.H1069Q	Homo	ND	20.1	NA	-	4	N	H	5365.1	21436.6	44.9
19	F	11	p.H1069Q	p.H1069Q	Homo	ND	21.9	22	-	4	N	H	3122.6	20465.1	50.9
20	F	20	p.H1069Q	p.H1069Q	Homo	ND	25.6	5.5	-	6	N	H*	3023.1	9196.6	19.7
21	M	61	p.H1069Q	p.H1069Q	Homo	ND	18.8	17	-	2	-	B	4093.1	11008.0	52.8
22	F	43	p.H1069Q	p.H1069Q	Homo	ND	16.8	20	-	5	N	H	2180.9	9100.6	65.0
23	F	49	p.H1069Q	p.H1069Q	Homo	ND	10.0	7	-	10	Y	H	794.9	4219.4	14.1
24	M	15	p.H1069Q	p.H1069Q	Homo	ND	11.1	<4	-	10	Y	H	1301.4	7500.6	28.4
25	F	11	p.H1069Q	p.H1069Q	Homo	ND	8.5	20	-	5	N	H	619.1	2969.1	11.5
26	F	25	p.H1069Q	p.H1069Q	Homo	ND	23.6	10	-	10	Y	B	3150.3	15918.9	48.3
27	F	27	p.H1069Q	p.H1069Q	Homo	ND	33.4	14	-	7	Y	H	9474.3	9320.0	54.4
28	M	26	p.H1069Q	p.H1069Q	Homo	ND	26.6	13.4	-	5	N	H	3606.9	7052.6	29.0
29	F	28	p.H1069Q	p.H1069Q	Homo	ND	20.0	26	-	6	N	H	NA	NA	NA
30	M	15	p.H1069Q	p.H1069Q	Homo	ND	27.3	14.6	1288.0	7	N	H	3732.0	13993.1	51.7
31	F	13	p.H1069Q	p.H1069Q	Homo	ND	21.4	13.1	-	5	N	H	3143.7	4384.0	18.7
32	M	NA	p.H1069Q	p.H1069Q	Homo	ND	27.6	21	1000	11	Y	B*	2425.4	12293.7	46.6
33	M	NA	p.H1069Q	p.H1069Q	Homo	ND	11.5	10	-	10	Y	B*	2986.0	4201.1	18.6
34	M	NA	p.H1069Q	p.H1069Q	Homo	ND	15.9	20	500	6	Y	H*	4577.4	12419.4	35.4
35	F	NA	p.H1069Q	p.H1069Q	Homo	ND	7.5	8	944	11	Y	N	3210.9	7339.4	29.0
36	M	19	p.H1069Q	p.H1069Q	Homo	ND	34.9	<10	-	10	Y	B	2858.3	11086.9	31.8
37	F	29	p.H1069Q	p.H1069Q	Homo	ND	30.3	13	547	9	Y	H	4119.7	9336.0	50.7
38	M	0	p.H1069Q	p.H1069Q	Homo	ND	5.1	20	-	4	N	H	3078.3	20000.0	39.0
39	F	22	p.H1069Q	p.H1069Q	Homo	ND	7.5	24	1415	6	N	H	2578.0	8898.3	17.9
40	M	37	p.H1069Q	p.H1069Q	Homo	ND	9.4	9.3	247	6	N	H	1260.6	5152.0	17.4
41	M	16	p.H1069Q	p.H1069Q	Homo	ND	8.8	12.8	-	6	N	H	949.1	7381.7	21.9
42	M	48	p.H1069Q	p.H1069Q	Homo	ND	13.1	16	915	5	N	H	839.1	8204.6	19.2
43	F	44	p.R778L	p.R778L	Homo	2.2	<3.0	10	-	10	Y	H	2551.4	5265.6	26.5
44	F	7	p.R816S	p.R816S	Homo	ND	ND	3.9	500	8	N	H	1895.4	11811.4	48.5
45	F	13	p.V845S-fs	p.V845S-fs	Homo	ND	ND	4	-	6	N	H	865.1	10420.6	20.1
46	F	NA	p.W779X	p.W779X	Homo	ND	ND	2	-	11	Y	H	8270.6	6845.7	36.3
47	M	5	p.W939C	p.W939C	Homo	ND	ND	3	-	6	N	H	2933.1	14877.7	33.2
48	M	9	p.W939C	p.W939C	Homo	ND	ND	-	-	4	N	H	2737.4	13273.1	28.9
49	F	18	p.W939C	p.W939C	Homo	13.3	31.3	-	-	4	N	H	920.6	5564.6	77.2
50	F	12	p.H1069Q	p.H1069Q	Homo	ND	ND	-	-	6	N	H	1497.7	9368.0	31.9
51	F	13	p.H1069Q	p.H1069Q	Homo	ND	56.1	12	-	7	N	H*	4446.3	27376.0	36.0
52	M	12	p.H1069Q	p.H1069Q	Comp. Hetero	ND	11.8	<9	164	7	N	H*	2021.4	9506.3	35.4
53	M	13	p.G1089E	p.N1270S	Comp. Hetero	41.7	48.8	<2	-	6	N	H	3156.9	6960.0	14.5
54	M	8	p.H1069Q	2304dupC	Comp. Hetero	ND	14.1	5	547	9	N	N	2651.4	6113.1	40.6
55	M	59	p.H1069Q	arr[GRCh37] 13q14.3(52541594_5 2548863)x1	Comp. Hetero	ND	16.1	13	-	5	Y	H	3754.0	9434.3	57.2
56	M	20	p.R778L	c.1543 +1G>T	Comp. Hetero	ND	ND	<3.0	-	8	N	H	3748.9	6905.1	41.4
57	F	15	p.M769H-fs*38	c.1576G>A	Comp. Hetero	ND	ND	>10	-	8	Y	H*	3076.9	11376.4	38.3
58	F	12	p.G710S	c.1708-1G>C	Comp. Hetero	69.5	109.6	27	-	8	N	H	2145.7	5556.0	34.3
59	F	10	p.V845S-fs	c.1708-1g>c	Comp. Hetero	17.3	42.6	11	-	5	N	H	3586.3	7797.7	16.9
60	M	63	p.S657R	c.2122-8T>C	Comp. Hetero	8.7	6.4	5	-	6	Y	H	1387.1	5377.1	31.8
61	F	18	p.C268L-fs	c.2304dupC	Comp. Hetero	ND	ND	3	-	9	Y	N	5830.0	9896.0	27.0
62	M	10	p.H1069Q	c.2304dupC	Comp. Hetero	ND	18.5	1	-	-	N	H	3208.0	21105.1	41.6
63	F	19	p.H1069Q	c.2304dupC	Comp. Hetero	ND	11.6	16.9	-	7	Y	H	1937.1	6809.1	41.2
64	M	20	p.H628R-fs	c.2304dupC	Comp. Hetero	ND	ND	2	-	10	Y	N	2886.9	12016.0	21.5
65	F	14	p.H1069Q	c.2865+1g>a	Comp. Hetero	ND	7.7	6	-	10	Y	N	2690.3	17574.9	35.3
66	F	9	p.H1069Q	c.2865+1g>a	Comp. Hetero	ND	6.5	6.6	-	6	N	H	2452.0	6259.4	15.5
67	F	17	p.Ser135*	c.2865+1G>A	Comp. Hetero	ND	ND	<135	-	9	N	H	2188.6	7273.1	59.6
68	M	11	c.1708-1g>c	c.2866-3c>g	Comp. Hetero	22.4	37.7	-	-	6	Y	H	1973.1	14261.7	33.9
69	F	16	p.I102H	c.3060+5G>C	Comp. Hetero	2.8	ND	<3.0	-	8	Y	H	3197.1	8881.1	25.1
70	M	NA	p.H1069Q	c.3242A>G	Comp. Hetero	ND	11.8	13.5	500	9	N	H*	1200.3	12093.9	42.1
71	M	8	p.M769H-fs*26	c.3244-2A>G	Comp. Hetero	ND	ND	<2	1412	7	N	H	3143.1	15660.6	29.9
72	F	24	p.G710S	c.3400delC	Comp. Hetero	57.7	96.6	0.6	448	12	Y	B	3192.0	6572.6	37.8
73	M	NA	p.H1069Q	c.IV512+1g>a	Comp. Hetero	15.7	26.1	13	1112	9	Y	H	3530.3	9834.3	30.9
74	F	12	p.H1069Q	IVS19-1C>G	Comp. Hetero	ND	13.5	3	-	9	Y	N	2202.3	6286.9	19.0
75	F	18	p.W779X	p.A1003T	Comp. Hetero	ND	5.8	7.2	765	10	Y	H*	2124.3	6218.3	34.7
76	M	5	p.E458X	p.A1018V	Comp. Hetero	26.4	47.5	4.1	793	8	N	H	4988.6	17910.9	34.1
77	F	14	p.W779X	p.A1018V	Comp. Hetero	ND	ND	>10	-	8	Y	H*	2277.7	6711.1	33.4
78	F	22	p.H1069Q	p.A1135C-fs*13	Comp. Hetero	ND	7.9	12	-	5	N	H	2168.9	11422.1	31.1
79	M	59	p.L1088X	p.A1135C-fs*13	Comp. Hetero	ND	ND	<4	-	6	Y	H	3810.9	11644.6	24.3
80	M	40	p.C2299insC	p.A874V	Comp. Hetero	6.0	10.5	5.5	1575	10	Y	H*	2610.3	12792.0	29.9
81	F	36	p.H1069Q	p.A874V	Comp. Hetero	6.8	25.9	NA	-	4	N	H*	3202.0	12013.7	35.4
82	F	38	p.H1069Q	p.A874V	Comp. Hetero	17.0	27.6	<10	-	8	Y	H*	2884.0	8362.3	24.0
83	F	39	p.R778L	p.A874V	Comp. Hetero	4.4	9.2	<3.0	-	8	Y	B	9270.9	3377.1	9.1
84	M	13	p.H1336V	p.C709T	Comp. Hetero	ND	10.5	13	552	8	N	H	4010.6	11921.1	34.6
85	F	NA	p.I1336V	p.C709T	Comp. Hetero	ND	6.3	3	-	7	N	H	4288.3	20630.4	33.9
86	F	68	p.E332K	p.D1047V	Comp. Hetero	51.7	79.3	27	26	6	N	B	2820.9	17629.7	55.2
87	F	19	p.H1069Q	p.D1447G-fs	Comp. Hetero	67.5	130.7	13	-	6	N	H	2052.0	7753.1	60.3
88	F	8	p.M769H-fs	p.D1460Y	Comp. Hetero	20.3	39.3	low	-	6	N	H	2135.1	15747.4	51.4
89	F	35	c.1707+2dupT	p.D642H	Comp. Hetero	5.4	ND	5	-	6	N	H	734.9	9130.3	20.5
90	F	23	p.R827P	p.D853G	Comp. Hetero	88.9	93.9	21	-	4	N	H*	2782.0	8982.9	11.4
91	F	26	p.H1069Q	p.D918N	Comp. Hetero	54.8	65.1	13	1692	9	Y	H	4010.6	11921.1	34.6
92	F	51	p.H1069Q	p.E1064A	Comp. Hetero	ND	23.7	14.2	1025	9	N	H	1646.0	12393.4	28.5
93	F	20	p.H1069Q	p.E1064K	Comp. Hetero	ND	ND	9.4	193	7	N	H*	352		

123	F	24	p.Q447L-fs	p.H1069Q	Comp. Hetero	ND	9.3	7	-	10	Y	B*	2853.7	9617.1	36.7
124	M	17	p.Q70-fs*14	p.H1069Q	Comp. Hetero	135.8	242.5	19	-	5	N	H	1846.9	20980.6	29.1
125	M	9	p.Q70-fs*14	p.H1069Q	Comp. Hetero	79.4	176.3	16	-	5	N	H	1495.4	25612.6	57.7
126	M	73	p.R919W	p.H1069Q	Comp. Hetero	ND	ND	20	1191	4	Y	N	1346.3	10641.1	62.6
127	M	32	p.R969Q	p.H1069Q	Comp. Hetero	88.2	102.6	-	-	4	N	B	4115.1	12371.4	27.2
128	F	71	p.S657R	p.H1069Q	Comp. Hetero	6.9	20.9	11	-	5	Y	N	1794.3	13658.3	49.2
129	F	16	p.V1765-fs*28	p.H1069Q	Comp. Hetero	ND	3.9	10	>250	6	N	H	730.86	8594.3	32.8
130	M	20	p.T59H-fs*19	p.H1247Q	Comp. Hetero	23.6	27.2	<4	54	9	Y	N	1348.0	8240.0	43.2
131	F	13	p.H1069Q	p.I1007T-fs	Comp. Hetero	ND	5.4	14	-	5	Y	H	2344.6	11632.0	49.1
132	M	32	p.R778L	p.I582R-fs*25	Comp. Hetero	ND	ND	<3.0	-	8	N	H	4712.6	6894.9	37.2
133	M	18	p.H1069Q	p.K1028S-fs	Comp. Hetero	ND	3.9	12	842	7	N	H*	1874.6	2573.7	8.7
134	F	10	p.M769H-fs	p.K1028S-fs	Comp. Hetero	ND	6.3	4	-	10	Y	N	4226.0	15436.6	45.7
135	M	15	p.R778L	p.K838S-fs*35	Comp. Hetero	ND	ND	<3.0	-	8	Y	H	2789.4	7065.1	16.4
136	M	22	p.R778L	p.K838S-fs*35	Comp. Hetero	ND	ND	<3.0	-	10	Y	N	3576.6	3433.1	24.5
137	F	13	p.W939C	p.L1057P	Comp. Hetero	ND	ND	-	-	8	Y	H	5412.3	5134.9	10.6
138	M	6	p.H1069Q	p.L1305P	Comp. Hetero	ND	26.5	-	1163	6	N	H	4234.6	6404.6	50.0
139	M	6	p.H1069Q	p.L1305P	Comp. Hetero	ND	4.3	14	613	7	N	H	2027.1	9700.6	39.5
140	F	29	p.R616Q	p.L1305P	Comp. Hetero	105.5	151.7	2	-	8	Y	B	3200.6	17329.1	27.8
141	F	46	p.H1069Q	p.L1333P	Comp. Hetero	ND	6.3	4	-	7	Y	H	1224.3	7866.3	40.7
142	M	39	p.T977M	p.L1350P	Comp. Hetero	22.6	32.6	5	-	10	Y	B	952.3	4400.0	22.5
143	F	26	p.R778L	p.L770L	Comp. Hetero	ND	ND	<3.0	-	9	Y	H	4554.0	3494.9	19.0
144	M	61	p.E1064A	p.M1359I	Comp. Hetero	22.6	54.6	8	1000	7	Y	N	3662.3	6525.7	50.0
145	M	14	p.E1064K	p.M665I	Comp. Hetero	38.0	80.1	<10	-	8	Y	H	1807.1	18697.1	25.9
146	M	37	p.H1069Q	p.M769H-fs	Comp. Hetero	ND	18.3	2	-	9	Y	B*	1071.1	1478.9	24.2
147	F	31	p.M665I	p.M769H-fs	Comp. Hetero	24.2	33.1	<10	736	8	N	H	2147.1	9625.1	31.8
148	M	20	p.R778L	p.M769H-fs*26	Comp. Hetero	ND	ND	<3.0	-	8	N	H	4772.0	8637.7	25.0
149	F	17	p.H1069Q	p.M996T	Comp. Hetero	130.2	180.1	-	2047	8	N	H	3827.4	8390.3	18.6
150	F	31	p.N415 /p.I1021V	p.M996T	Comp. Hetero	129.1	218.6	4	>250	6	N	H	2365.7	12683.4	36.1
151	F	23	p.R778L	p.N1270S	Comp. Hetero	31.0	37.0	<3.0	-	9	Y	N	2282.6	911.4	9.1
152	M	19	p.H1069Q	p.G710S	Comp. Hetero	47.5	71.1	14	1302	7	N	H	1914.6	8516.6	25.3
153	F	37	p.H1069Q	p.P1273L	Comp. Hetero	105.3	188.5	8	-	10	Y	N	2988.6	9387.4	22.1
154	F	18	p.M769H-fs	p.P1273L	Comp. Hetero	121.4	170.4	5	-	10	Y	N	2105.1	14229.7	14.7
155	F	21	p.R816S	p.P539L	Comp. Hetero	ND	ND	4.9	1028	8	N	H	1361.1	7390.9	36.7
156	M	6	p.H1069Q	p.Q1372X	Comp. Hetero	ND	8.3	<10	1191	8	N	H	3006.9	14422.9	39.7
157	F	8	p.O765Y	p.R1041W	Comp. Hetero	6.8	20.7	10	1211	8	N	H	2009.1	10128.0	49.3
158	M	26	p.G710S	p.R115X	Comp. Hetero	61.6	106.0	16	-	10	Y	H	2221.4	6214.9	35.0
159	M	40	p.R827W	p.R120T	Comp. Hetero	58.7	93.4	13	-	7	N	H	3302.3	9913.7	28.3
160	M	10	p.H1069Q	p.R616Q	Comp. Hetero	54.9	88.0	18	-	5	N	H	4659.4	14603.4	72.2
161	M	NA	p.H1069Q	p.R778G	Comp. Hetero	ND	8.8	11	-	8	N	A	5078.0	9179.4	52.1
162	F	18	p.H1069Q	p.R778G	Comp. Hetero	ND	11.1	14	-	5	N	H	2722.0	6597.7	24.5
163	M	2 months	p.V1106I	p.R778L	Comp. Hetero	4.0	9.7	10	-	-	N	A	4292.9	0.0	25.1
164	F	NA	p.H1069Q	p.R778P	Comp. Hetero	ND	ND	11	1332	9	N	H	3996.0	9588.6	35.4
165	M	15	p.K35N-fs*6	p.R778W	Comp. Hetero	21.8	25.1	<3	-	4	Y	N	1462.9	9373.7	32.9
166	F	26	p.M769H-fs	p.R919L	Comp. Hetero	ND	ND	13	359	9	N	H	4341.1	10913.7	35.4
167	F	19	p.H1069Q	p.R919L	Comp. Hetero	3.6	22.1	9	-	10	Y	N	4472.6	4241.1	29.9
168	M	9	p.O765Y	p.R919W	Comp. Hetero	26.7	46.2	8	-	6	N	H	3138.6	16010.3	24.9
169	M	50	p.V845S-fs*28	p.R919W	Comp. Hetero	ND	ND	<4	-	4	N	H	2377.7	11437.7	24.9
170	M	NA	p.H1069Q	p.R969Q	Comp. Hetero	90.5	131.4	-	-	4	-	-	3761.1	26995.4	57.2
171	F	9	p.H1069Q	p.R969Q	Comp. Hetero	145.6	220.9	16	-	5	N	H	4605.1	29201.1	65.0
172	F	14	p.H1069Q	p.R969Q	Comp. Hetero	71.3	105.6	21	1000	6	N	H	2403.1	12822.9	21.4
173	F	23	p.H1069Q	p.R969Q	Comp. Hetero	35.6	29.1	17	-	7	N	H	1958.9	11641.1	46.1
174	F	39	p.I582R-fs*25	p.R969Q	Comp. Hetero	56.5	77.4	14	-	3	N	B	1978.6	6955.4	37.6
175	F	35	p.I582R-fs*25	p.R969Q	Comp. Hetero	70.4	93.6	12	-	4	N	H	3733.7	5796.6	44.0
176	M	NA	p.R616W	p.R969Q	Comp. Hetero	134.2	134.2	25	-	7	N	H	2855.7	6608.0	28.8
177	M	20	p.R919G	p.T1029I	Comp. Hetero	6.7	7.2	4.8	-	5	N	H	2359.7	8910.9	43.0
178	M	30	p.R778L	p.T1029I	Comp. Hetero	ND	ND	<3.0	-	8	Y	H	3803.7	5637.7	22.3
179	F	32	p.R778L	p.T1031A	Comp. Hetero	16.2	19.1	<3.0	-	11	Y	N	2501.7	3453.7	12.4
180	M	20	p.H1069Q	p.T1220M	Comp. Hetero	ND	21.4	15.0	-	7	N	H*	1786.0	10965.1	23.8
181	F	41	p.G1266R	p.T807I	Comp. Hetero	8.3	5.9	6.0	291	9	N	H	1786.0	11107.4	37.8
182	M	40	p.G515S	p.T850I	Comp. Hetero	11.6	13.4	10	-	6	Y	B	3111.1	8813.7	11.5
183	F	31	p.T977M	p.T991A	Comp. Hetero	137.9	191.7	12	-	3	Y	H	2552.0	11189.7	21.5
184	M	10	p.A874V	p.V1106I	Comp. Hetero	20.1	15.5	4	-	-	-	-	3481.1	12035.7	25.7
185	M	47	p.N1270S	p.V1216M	Comp. Hetero	60.3	74.2	<3.0	-	8	Y	N	3250.6	7428.6	26.2
186	M	NA	p.S932L	p.V1364V-fs	Comp. Hetero	ND	ND	10	-	9	N	B	3694.6	10523.4	49.0
187	M	25	p.M665I	p.V845S-fs	Comp. Hetero	79.7	98.0	8	-	6	-	-	1072.3	11641.1	46.1
188	F	8	p.M645R	p.V997-fs	Comp. Hetero	38.7	72.4	2.4	>250	8	N	H*	1629.7	9001.1	25.9
189	M	24	p.R1041W	p.V1353*	Comp. Hetero	ND	ND	10	-	5	Y	H	1906.9	10686.9	29.3
190	M	15	p.H1069Q	p.W779G	Comp. Hetero	4.1	7.7	6.3	-	6	N	H	936.0	6580.6	23.2
191	M	8	p.H1069Q	p.W779X	Comp. Hetero	ND	10.7	18	763	9	Y	H	3024.9	4560.0	31.8
192	M	22	p.H1069Q	p.W939C	Comp. Hetero	ND	12.2	3	-	6	N	H	2688.0	14091.4	27.6
193	F	15	p.S136S-fs*12	p.W743I-fs*19	Comp. Hetero	ND	ND	<6	-	7	N	H	2700.3	8075.4	48.5
194	M	50	p.O765Y	unknown	unknown	20.4	21.4	<4	-	8	Y	N	2898.0	5292.6	29.6
195	F	43	p.C5143A4	unknown	unknown	25.6	37.6	4	-	8	Y	N	1971.4	3164.6	22.6
196	F	28	p.A1049A-fs	unknown	unknown	2.2	9.1	3	-	7	Y	N	1824.0	4130.3	45.0
197	M	22	p.G1176R	unknown	unknown	3.6	7.3	3	-	5	N	H	1991.4	18424.0	43.0
198	F	NA	p.H1069Q	unknown	unknown	ND	5.0	12	-	6	N	H	4220.3	17555.4	46.7
199	M	17	p.H1069Q	unknown	unknown	8.6	32.9	<10	-	5	N	N	1628.3	5894.9	43.8
200	M	14	p.H1069Q	unknown	unknown	ND	6.7	13	-	4	Y	H	1919.4	9124.6	32.0
201	M	14	p.H1069Q	unknown	unknown	31.4	23.0	3.4	-	4	N	H	1962.9	14021.7	18.2
202	F	16	p.M769H-fs	unknown	unknown	ND	ND	13.8	525	6	Y	H	1401.1	6582.9	17.4
203	M	37	p.R1319X	unknown	unknown	3.0	5.2	<10	1042	9	Y	B	4165.1	32413.7	42.7
204	M	12	p.R778L	unknown	unknown	ND	9.5	<3.0	-	5	N	H	4073.1	8524.6	28.9
205	M	25	p.T1220M	unknown	unknown	67.7	77.0	<10	191	4	N	B	3612.9	6674.3	27.7
206	M	45	p.W779X	unknown	unknown	ND	ND	<4	-	6	Y	H	1196.9	6755.4	18.7
207	F	18	p.W779X	unknown	unknown	38.0	65.6	15.3	258	6	N	H	1515.1	8123.4	31.5
208	M	17	c.22994eC	unknown	unknown	ND	ND	<2	-	4	N	H	1332.3	9917.7	25.2
209	M	19	c.22994eC	unknown	unknown	ND	ND	<2	502	8	N	N	1078.3	4489.1	19.4
210	M	NA	p.L1305P	unknown	unknown	ND	6.0	-	-	3	-	-	1612.3	12888.0	45.4
211	F	22	p.H1069Q	unknown	unknown	ND	7.9	2	-	5	N	N	3527.1	8246.9	30.0
212	M	49	NA	NA	NA	3.0	4.0	<3.0	-	4	Y	H	4231.7	7104.0	28.6
213	M	NA	NA	NA	NA	ND	ND	12	388	10	N	H*	4666.9	12170.3	17.5
214	F	NA	NA	NA	NA	ND	ND	14	-	8	N	H*	3359.4	6130.3	17.9
215	M	NA	NA	NA	NA	ND	ND	3	-	5	N	B	2492.0	3841.0	16.8
216	F	NA	NA	NA	NA	31.2	44.8	2.0	-	3	N	A	4401.1	22524.6	