

Supplementary Table 2. Distribution of common (MAF ≥0.001) and rare variants (MAF ≤0.001) in *BRCA*s by aggregated and population specific gnomAD data

No.	Gene	Variant	Mutation Type	ACMG Class.	n	Variant Frequency (n)	Observed Allele Frequency	gnomAD Aggregated Global Frequency	gnomAD Populational Frequency	Database/ Population
1	<i>BRCA1</i>	c.1166_1169dup p.D390Efs*2	Frameshift	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
2	<i>BRCA1</i>	c.134A>C p.K45T	Missense	VUS	1	0.23	0.020202%	0.079800%	0.001766%	gnomAD European (non-Finnish)
3	<i>BRCA1</i>	c.135-2A>T	Intronic	LP	3	0.69	0.060606%	0.000000%	0.000000%	gnomAD
4	<i>BRCA2</i>	c.7689delC p.H2563Qfs*85	Frameshift	P	17	3.92	0.343434%	0.000000%	0.000000%	gnomAD
5	<i>BRCA1</i>	c.1621C>T p.Q541*	Nonsense	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
6	<i>BRCA1</i>	c.1637_1685delinsGA AAG p.M546Ifs*5	Frameshift	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
7	<i>BRCA1</i>	c.1644T>C p.I548I	Synonymous	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
8	<i>BRCA1</i>	c.1714G>T p.E572*	Nonsense	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
9	<i>BRCA1</i>	c.1772T>C p.I591T	Missense	VUS	1	0.23	0.020202%	0.000797%	0.001762%	gnomAD European
10	<i>BRCA1</i>	c.181T>G p.C61G	Missense	P	5	1.15	0.101010%	0.319000%	0.006168%	gnomAD European (non-Finnish)
11	<i>BRCA1</i>	c.1881_1884del p.S628Efs*3	Frameshift	P	3	0.69	0.060606%	0.000398%	0.002893%	gnomAD Latino/ Admixed American
12	<i>BRCA1</i>	c.1886G>T p.R629I	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
13	<i>BRCA1</i>	c.1895G>A p.S632N	Missense	LP	2	0.46	0.040404%	0.000398%	0.016360%	gnomAD Other
14	<i>BRCA1</i>	c.1938_1947delCAG TGAAGAG p.S646fs*2	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
15	<i>BRCA1</i>	c.2019delA p.E673Dfs*28	Frameshift	P	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD
16	<i>BRCA1</i>	c.2077G>A p.D693N	Missense	VUS	2	0.46	0.040404%	5.840000%	9.370000%	gnomAD Ashkenazi Jewish
17	<i>BRCA1</i>	c.2599C>G p.Q867E	Missense	LP	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD
18	<i>BRCA1</i>	c.2611_2612delCC p.P871Vfs*31	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
19	<i>BRCA1</i>	c.2666C>T p.S889F	Missense	VUS	1	0.23	0.020202%	0.001195%	0.002644%	gnomAD European (non-Finnish)
20	<i>BRCA1</i>	c.1444_1447delATTA p.I482*	Frameshift	P	15	3.46	0.303030%	0.000000%	0.000000%	gnomAD
21	<i>BRCA1</i>	c.2952del p.I986Sfs*14	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
22	<i>BRCA1</i>	c.3211G>T p.E1071*	Nonsense	LP	3	0.69	0.060606%	0.000000%	0.000000%	gnomAD
23	<i>BRCA1</i>	c.3247A>G p.M1083V	Missense	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
24	<i>BRCA1</i>	c.3328_3330delAAG p.K1110del	Inframe del	VUS	2	0.46	0.040404%	0.039560%	0.323600%	gnomAD South Asian
25	<i>BRCA1</i>	c.3333del p.E1112Nfs*5	Frameshift	P	3	0.69	0.060606%	0.000000%	0.000000%	gnomAD
26	<i>BRCA1</i>	c.3607C>T p.R1203*	Nonsense	P	3	0.69	0.060606%	0.001195%	0.005456%	gnomAD East Asian
27	<i>BRCA1</i>	c.3700_3704del p.N1234Qfs*8	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD
28	<i>BRCA1</i>	c.3756_3759delGTCT p.S1253fs*10	Frameshift	P	1	0.23	0.020202%	0.002388%	0.016320%	gnomAD Other
29	<i>BRCA1</i>	c.3770_3771delAG p.E1257Gfs*9	Frameshift	P	1	0.23	0.020202%	0.000796%	0.003266%	gnomAD South Asian

30	BRCA1	c.4033C>T p.L1335L	Nonsense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
31	BRCA1	c.4035delA p.E1346fs*20	Frameshift	P	1	0.23	0.020202%	0.004248%	0.009301%	gnomAD	European (non-Finnish)
32	BRCA1	c.4063_4065delAAT p.N1355del	Inframe del	LP	1	0.23	0.020202%	0.000399%	0.000881%	gnomAD	European (non-Finnish)
33	BRCA1	c.4065_4068delTCAA p.N1355Kfs*10	Frameshift	P	1	0.23	0.020202%	0.001190%	0.003280%	gnomAD	South Asian
34	BRCA1	c.4070_4071delAA p.E1357Gfs*10	Frameshift	LP	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
35	BRCA1	c.4185+21_4185+22dupTG	Inframe dup	LP	1	0.23	0.020202%	0.006964%	0.018960%	gnomAD	South Asian
36	BRCA1	c.2800C>T p.Q934*	Nonsense	P	13	3.00	0.262626%	0.000000%	0.000000%	gnomAD	
37	BRCA1	c.4366A>G p.T1456A	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
38	BRCA1	c.4391_4393delCTAinsTT p.P1464Lfs*2	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
39	BRCA1	c.4391_4393delinsTT p.P1464Lfs*2	Frameshift	P	3	0.69	0.060606%	0.000000%	0.000000%	gnomAD	
40	BRCA1	c.4443G>T p.E1478D	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
41	BRCA1	c.4487C>A p.S1496*	Nonsense	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
42	BRCA1	c.493_494delCT p.L165fs*16	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
43	BRCA1	c.4936del p.V1646Sfs*12	Frameshift	P	2	0.46	0.040404%	0.000796%	0.009925%	gnomAD	Ashkenazi Jewish
44	BRCA1	c.4956G>A p.M1652I	Missense	P	3	0.69	0.060606%	1.818000%	3.799000%	gnomAD	South Asian
45	BRCA1	c.4986+6T>C	Intronic	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
46	BRCA1	c.4986+6T>G	Intronic	VUS	1	0.23	0.020202%	0.000400%	0.000892%	gnomAD	European (non-Finnish)
47	BRCA1	c.4987A>T p.M1663L	Missense	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
48	BRCA1	c.5057dupA p.H1686Qfs*9	Frameshift	LP	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
49	BRCA1	c.509G>A p.R170Q	Missense	LP	2	0.46	0.040404%	0.003579%	0.007033%	gnomAD	European
50	BRCA1	c.5102_5103delITG p.L1722Qfs*14	Frameshift	P	1	0.23	0.020202%	0.000398%	0.005438%	gnomAD	East Asian
51	BRCA1	c.5123C>A p.A1708E	Missense	P	5	1.15	0.101010%	0.001990%	0.005784%	gnomAD	Latino/Admixed American
52	BRCA1	c.5152+23C>T	Intronic	VUS	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
53	BRCA1	c.5194-2A>G	Intronic	P	1	0.23	0.020202%	0.000398%	0.000879%	gnomAD	European (non-Finnish)
54	BRCA1	c.4327C>T p.R1443*	Nonsense	P	13	3.00	0.262626%	0.002476%	0.008468%	gnomAD	Latino/Admixed American
55	BRCA1	c.535T>C p.Y179H	Missense	VUS	2	0.46	0.040404%	0.000795%	0.001758%	gnomAD	European (non-Finnish)
56	BRCA1	c.53T>A p.M18K	Missense	VUS	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
57	BRCA1	c.692C>G p.T231R	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
58	BRCA1	c.734A>T p.D245V	Missense	VUS	1	0.23	0.020202%	0.001200%	0.002652%	gnomAD	European (non-Finnish)
59	BRCA1	c.788dupG p.S264*	Nonsense	P	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
60	BRCA1	c.81-4C>T	Intronic	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
61	BRCA1	c.979A>G p.T327A	Missense	VUS	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
62	BRCA2	c.1773_1776delTTAT p.I591Mfs*22	Frameshift	P	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	

63	BRCA2	c.10037_10046delTGATAAA TACinsATT p.L3346fs*35	Frameshift	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
64	BRCA2	c.10078A>G p.K3360E	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
65	BRCA2	c.10089A>G p.I3363M	Missense	VUS	1	0.23	0.020202%	0.008139%	0.065350%	gnomAD	South Asian
66	BRCA2	c.10095delCinsGAATT ATATCT p.S3366Nfs*4	Frameshift	LP	3	0.69	0.060606%	0.000000%	0.000000%	gnomAD	
67	BRCA2	c.1055dupA p.Y352*	Nonsense	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
68	BRCA2	c.1114A>C p.N372H	Missense	P	1	0.23	0.020202%	27.330000%	35.660000%	gnomAD	Ashkenazi Jewish
69	BRCA2	c.1181A>C p.E394A	Missense	LP	1	0.23	0.020202%	0.002398%	0.005293%	gnomAD	European (non-Finnish)
70	BRCA2	c.122C>T p.P41L	Missense	VUS	2	0.46	0.040404%	0.000398%	0.000879%	gnomAD	European (non-Finnish)
71	BRCA2	c.1235C>G p.P412R	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
72	BRCA2	c.1310_1313delAAGA p.K437Ifs*22	Frameshift	P	2	0.46	0.040404%	0.000411%	0.006433%	gnomAD	African/ African- American
73	BRCA2	c.1343G>A p.R448H	Missense	VUS	3	0.69	0.060606%	0.000403%	0.002942%	gnomAD	Latino/ Admixed American
74	BRCA2	c.1411G>A p.E471K	Missense	VUS	4	0.92	0.080808%	0.000000%	0.000000%	gnomAD	
75	BRCA2	c.1414C>T p.Q472*	Nonsense	P	3	0.69	0.060606%	0.000000%	0.000000%	gnomAD	
76	BRCA2	c.1519delA p.R507fs*2	Frameshift	LP	5	1.15	0.101010%	0.000000%	0.000000%	gnomAD	
77	BRCA2	c.1570A>G p.M524V	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
78	BRCA2	c.1587_1590delTAAA p.F529fs*28	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
79	BRCA2	c.1605C>T p.A535A	Synonymous	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
80	BRCA2	c.1627C>A p.H543N	Missense	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
81	BRCA2	c.1648G>A p.E550K	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
82	BRCA2	c.1773_1776delTTAT p.I591fs*22	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
83	BRCA2	c.1854C>A p.A618A	Synonymous	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
84	BRCA2	c.5266dupC p.Q1756Pfs*74	Frameshift	P	13	3.00	0.262626%	0.000000%	0.000000%	gnomAD	
85	BRCA2	c.1951G>T p.D651Y	Missense	VUS	2	0.46	0.040404%	0.000416%	0.000906%	gnomAD	European (non-Finnish)
86	BRCA2	c.2264C>G p.S755C	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
87	BRCA2	c.2372C>A p.S791*	Nonsense	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
88	BRCA2	c.2706T>C p.A902A	Synonymous	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
89	BRCA2	c.2765dupT p.K923Qfs*13	Frameshift	P	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
90	BRCA2	c.2779A>G p.M927V	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
91	BRCA2	c.2808_2811delACAA p.A938fs*21	Frameshift	P	3	0.69	0.060606%	0.000797%	0.001764%	gnomAD	European (non-Finnish)
92	BRCA2	c.280C>T p.P94S	Missense	VUS	1	0.23	0.020202%	0.004779%	0.016350%	gnomAD	Other
93	BRCA2	c.2892A>T p.K964N	Missense	LP	1	0.23	0.020202%	0.004428%	0.036790%	gnomAD	South Asian
94	BRCA2	c.3073A>G p.K1025E	Missense	LP	1	0.23	0.020202%	0.004799%	0.009723%	gnomAD	European (non-Finnish)
95	BRCA2	c.3171_3172del p.K1058Tfs*8	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
96	BRCA2	c.3263dupC p.Q1089Sfs*10	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
97	BRCA2	c.6290C>T p.T2097M	Missense	LP	1	0.23	0.020202%	0.008314%	0.026390%	gnomAD	Latino/ Admixed American

98	<i>BRCA2</i>	c.3302A>G p.H1101R	Missense	VUS	1	0.23	0.020202%	0.000043%	0.000934%	gnomAD	European
99	<i>BRCA2</i>	c.1909+22delT	Inframe del	VUS	9	2.07	0.181818%	11.300000%	13.800000%	gnomAD	Ashkenazi Jewish
100	<i>BRCA2</i>	c.3465_3466delTT p.S1156*	Nonsense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
101	<i>BRCA2</i>	c.349_350delCT p.L117fs*6	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
102	<i>BRCA2</i>	c.3503T>C p.M1168T	Missense	P	2	0.46	0.040404%	0.000399%	0.002892%	gnomAD	Latino/ Admixed American
103	<i>BRCA2</i>	c.3545_3546delTT p.F1182*	Nonsense	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
104	<i>BRCA2</i>	c.3836A>G p.N1279S	Missense	LP	9	2.07	0.181818%	0.000000%	0.000000%	gnomAD	
105	<i>BRCA2</i>	c.375T>A p.D125E	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
106	<i>BRCA2</i>	c.9097dupA p.T3033fs*11	Frameshift	P	9	2.07	0.181818%	0.003185%	0.006483%	gnomAD	European (non-Finnish)
107	<i>BRCA2</i>	c.4081C>G p.Q1361E	Missense	VUS	3	0.69	0.060606%	0.000000%	0.000000%	gnomAD	
108	<i>BRCA2</i>	c.4146_4148delAGA p.E1382del	Inframe del	LP	2	0.46	0.040404%	0.007223%	0.024010%	gnomAD	European (Finnish)
109	<i>BRCA2</i>	c.3318C>G p.S1106R	Missense	LP	7	1.61	0.141414%	0.000420%	0.000914%	gnomAD	European (non-Finnish)
110	<i>BRCA2</i>	c.4237A>G p.K1413E	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
111	<i>BRCA2</i>	c.4243G>C p.E1415Q	Missense	VUS	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
112	<i>BRCA2</i>	c.4258G>T p.D1420Y	Missense	VUS	3	0.69	0.060606%	0.666000%	1.880000%	gnomAD	European (Finnish)
113	<i>BRCA2</i>	c.426-1G>C	Intronic	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
114	<i>BRCA2</i>	c.4446_4451dupAACAGA p.E1482_T1483dup	Inframe dup	VUS	2	0.46	0.040404%	0.000400%	0.000885%	gnomAD	European (non-Finnish)
115	<i>BRCA2</i>	c.4471_4474del p.L1491Kfs*12	Frameshift	P	4	0.92	0.080808%	0.000399%	0.006187%	gnomAD	African/ African-American
116	<i>BRCA2</i>	c.4519delC p.Q1507Rfs*36	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
117	<i>BRCA2</i>	c.4531G>A p.E1511K	Missense	VUS	1	0.23	0.020202%	0.002840%	0.019620%	gnomAD	South Asian
118	<i>BRCA2</i>	c.4631dupA p.N1544Kfs*4	Frameshift	P	1	0.23	0.020202%	0.000710%	0.001554%	gnomAD	European (non-Finnish)
119	<i>BRCA2</i>	c.4751del p.E1584Gfs*33	Frameshift	LP	3	0.69	0.060606%	0.000000%	0.000000%	gnomAD	
120	<i>BRCA2</i>	c.4901T>C p.F1634S	Missense	VUS	1	0.23	0.020202%	0.001427%	0.003120%	gnomAD	European (non-Finnish)
121	<i>BRCA2</i>	c.5020delA p.S1674Vfs*8	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
122	<i>BRCA2</i>	c.5130_5133TGTA p.Y1710*	Nonsense	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
123	<i>BRCA1</i>	c.5153-26A>G	Intronic	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
124	<i>BRCA2</i>	c.518delG p.G173fs*12	Frameshift	P	1	0.23	0.020202%	0.003185%	0.011470%	gnomAD	African/ African-American
125	<i>BRCA2</i>	c.5312G>A p.G1771D	Missense	VUS	2	0.46	0.040404%	0.031580%	0.096690%	gnomAD	Ashkenazi Jewish
126	<i>BRCA2</i>	c.5351dupA p.N1784Tfs*3	Frameshift	P	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
127	<i>BRCA2</i>	c.5483A>G p.K1828R	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
128	<i>BRCA2</i>	c.5590G>A p.D1864N	Missense	VUS	2	0.46	0.040404%	0.001220%	0.016760%	gnomAD	Other
129	<i>BRCA2</i>	c.5647A>T p.K1883*	Nonsense	LP	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
130	<i>BRCA2</i>	c.5697T>A p.D1899E	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
131	<i>BRCA2</i>	c.5722_5723delCT p.L1908Rfs*2	Frameshift	P	1	0.23	0.020202%	0.000399%	0.003268%	gnomAD	South Asian

132	BRCA2	c.575T>C p.M192T	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
133	BRCA2	c.5870T>C p.I1957T	Missense	VUS	1	0.23	0.020202%	0.002391%	0.006535%	gnomAD	South Asian
134	BRCA2	c.5969delA p.D1990Vfs*14	Frameshift	P	4	0.92	0.080808%	0.000000%	0.000000%	gnomAD	
135	BRCA2	c.5975C>T p.S1992L	Missense	VUS	1	0.23	0.020202%	0.000709%	0.001553%	gnomAD	European (non-Finnish)
136	BRCA2	c.6008T>C p.I2003T	Missense	VUS	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
137	BRCA2	c.6080G>A p.R2027K	Missense	VUS	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
138	BRCA2	c.6085_6089delGAAAA p.E2029Yfs*18	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
139	BRCA2	c.6231G>C p.K2077N	Missense	LP	1	0.23	0.020202%	0.011660%	0.096250%	gnomAD	South Asian
140	BRCA2	c.6320delC p.P2107Lfs*12	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
141	BRCA2	c.6365T>C p.M2122T	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
142	BRCA2	c.6405_6409delCTTAA p.N2135fs*3	Frameshift	P	1	0.23	0.020202%	0.000416%	0.017240%	gnomAD	Other
143	BRCA2	c.6468_6469delTC p.Q2157Ifs*18	Frameshift	P	1	0.23	0.020202%	0.000436%	0.003910%	gnomAD	Other-South Asian
144	BRCA2	c.6469C>T p.Q2157*	Nonsense	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
145	BRCA2	c.6550C>G p.Q2184E	Missense	VUS	3	0.69	0.060606%	0.001220%	0.010160%	gnomAD	Ashkenazi Jewish
146	BRCA2	c.6609T>A p.V2203V	Synonymous	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
147	BRCA2	c.6613G>A p.V2205M	Missense	VUS	1	0.23	0.020202%	0.002446%	0.005358%	gnomAD	European (non-Finnish)
148	BRCA2	c.6614T>G p.V2205G	Missense	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
149	BRCA2	c.3751dupA p.T1251fs*14	Frameshift	P	6	1.38	0.121212%	0.000407%	0.016740%	gnomAD	Other
150	BRCA2	c.6742C>A p.H2248N	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
151	BRCA2	c.6814delA p.R2272Efs*8	Frameshift	P	3	0.69	0.060606%	0.000000%	0.000000%	gnomAD	
152	BRCA2	c.6842G>A p.G2281E	Missense	LP	1	0.23	0.020202%	0.000408%	0.003397%	gnomAD	South Asian
153	BRCA2	c.6934G>C p.D2312H	Missense	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
154	BRCA2	c.6935A>T p.D2312V	Missense	VUS	2	0.46	0.040404%	0.022050%	0.189900%	gnomAD	South Asian
155	BRCA2	c.7007G>A p.R2336H	Missense	P	3	0.69	0.060606%	0.000000%	0.000000%	gnomAD	
156	BRCA2	c.7072T>C p.S2358P	Missense	VUS	1	0.23	0.020202%	0.000797%	0.006550%	gnomAD	South Asian
157	BRCA2	c.7227T>C p.P2409P	Synonymous	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
158	BRCA2	c.7435+10G>A	Intronic	VUS	1	0.23	0.020202%	0.000400%	0.000887%	gnomAD	European (non-Finnish)
159	BRCA2	c.7436-1G>C	Intronic	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
160	BRCA2	c.7472A>T p.Q2491L	Missense	VUS	5	1.15	0.101010%	0.000000%	0.000000%	gnomAD	
161	BRCA2	c.7522G>A p.G2508S	Missense	VUS	1	0.23	0.020202%	0.015910%	0.225500%	gnomAD	East Asian
162	BRCA2	c.7544C>T p.T2515I	Missense	VUS	2	0.46	0.040404%	0.059780%	0.166200%	gnomAD	European African/African-American
163	BRCA2	c.7633G>A p.V2545I	Missense	P	1	0.23	0.020202%	0.000709%	0.004020%	gnomAD	
164	BRCA2	c.7645T>G p.C2549G	Missense	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
165	BRCA2	c.4169delT p.L1390fs*20	Frameshift	P	6	1.38	0.121212%	0.000000%	0.000000%	gnomAD	
166	BRCA2	c.7700A>G p.Y2567C	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
167	BRCA2	c.771_775del p.N257Kfs*17	Frameshift	P	1	0.23	0.020202%	0.000798%	0.009244%	gnomAD	European (Finnish)
168	BRCA2	c.7766C>T p.P2589L	Missense	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
169	BRCA2	c.7783G>T p.A2595S	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
170	BRCA2	c.7855T>C p.W2619R	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	

171	BRCA2	c.7976G>A p.R2659K	Missense	P	2	0.46	0.040404%	0.000398%	0.000881%	gnomAD	European (non-Finnish)
172	BRCA2	c.8020_8021dupAA p.I2675fs*2	Frameshift	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
173	BRCA2	c.8021A>G p.K2674R	Missense	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
174	BRCA2	c.8092G>A p.A2698T	Missense	VUS	2	0.46	0.040404%	0.003537%	0.024030%	gnomAD	African/ African-American
175	BRCA2	c.8117A>G p.N2706S	Missense	VUS	1	0.23	0.020202%	0.006719%	0.052260%	gnomAD	South Asian
176	BRCA2	c.8155A>G p.I2719V	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
177	BRCA2	c.8322-47G>T	Intronic	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
178	BRCA2	c.8324T>G p.M2775R	Missense	VUS	1	0.23	0.020202%	0.003184%	0.006481%	gnomAD	European (non-Finnish)
179	BRCA2	c.8359C>T p.R2787C	Missense	VUS	1	0.23	0.020202%	0.000398%	0.002891%	gnomAD	Latino/ Admixed American
180	BRCA2	c.8395delA p.R2799Dfs*22	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
181	BRCA2	c.8452G>A p.V2818I	Missense	VUS	2	0.46	0.040404%	0.000398%	0.000880%	gnomAD	European (non-Finnish)
182	BRCA2	c.8478C>A p.Y2826*	Nonsense	P	4	0.92	0.080808%	0.000398%	0.003267%	gnomAD	South Asian
183	BRCA2	c.8487+39T>C	Intronic	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
184	BRCA2	c.8649A>G p.P2883P	Synonymous	VUS	2	0.46	0.040404%	0.000000%	0.000000%	gnomAD	
185	BRCA2	c.8878C>T p.Q2960*	Nonsense	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
186	BRCA2	c.67+1G>A	Intronic	P	6	1.38	0.121212%	0.000000%	0.000000%	gnomAD	
187	BRCA2	c.8930delA p.Y2977Ffs*11	Frameshift	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
188	BRCA2	c.8940delA p.E2981Kfs*7	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
189	BRCA2	c.8953+80G>A	Intronic	VUS	1	0.23	0.020202%	0.012700%	0.025900%	gnomAD	European (non-Finnish)
190	BRCA2	c.9038C>T p.T3013I	Missense	VUS	1	0.23	0.020202%	0.024480%	0.047480%	gnomAD	European (non-Finnish)
191	BRCA2	c.9052_9057delAGTAAA p.K3019_3020del	Inframe del	LP	3	0.69	0.060606%	0.003548%	0.032120%	gnomAD	African/ African-American
192	BRCA2	c.8881G>A p.G2961S	Missense	VUS	6	1.38	0.121212%	0.000000%	0.000000%	gnomAD	
193	BRCA2	c.9253del p.T3085Qfs*19	Frameshift	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
194	BRCA2	c.9317G>A p.W3106*	Nonsense	P	5	1.15	0.101010%	0.000000%	0.000000%	gnomAD	
195	BRCA2	c.9370_9381delAACCTCCA GTGG p.N3124_W3127del	Inframe del	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
196	BRCA2	c.9370_9383delAAC CTCCAGTGGCGinsCT p.R3128delinsL	Missense	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
197	BRCA2	c.9382C>T p.R3128*	Nonsense	P	1	0.23	0.020202%	0.002122%	0.020030%	gnomAD	African/ African-American
198	BRCA2	c.9397_9398delTC p.S3133fs*16	Frameshift	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
199	BRCA2	c.9501+4A>G	Intronic	VUS	2	0.46	0.040404%	0.001195%	0.016360%	gnomAD	Other
200	BRCA2	c.9502-12T>G	Intronic	VUS	1	0.23	0.020202%	0.010620%	0.027750%	gnomAD	Other
201	BRCA2	c.9556G>C p.A3186P	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
202	BRCA2	c.9586A>G p.K3196E	Missense	P	1	0.23	0.020202%	0.009546%	0.028220%	gnomAD	Latino/ Admixed American

203	<i>BRCA2</i>	c.9613_9614delGCinsCT p.A3205L	Missense	LP	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
204	<i>BRCA2</i>	c.9682delA p.S3228Vfs*21	Frameshift	P	1	0.23	0.020202%	0.000400%	0.000883%	gnomAD	European (non-Finnish)
205	<i>BRCA2</i>	c.9717G>A p.W3106*	Nonsense	P	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
206	<i>BRCA2</i>	c.9730G>T p.V3244F	Missense	VUS	1	0.23	0.020202%	0.001194%	0.010880%	gnomAD	East Asian
207	<i>BRCA2</i>	c.9772G>A p.E3258K	Missense	VUS	1	0.23	0.020202%	0.000000%	0.000000%	gnomAD	
208	<i>BRCA2</i>	c.9839C>A p.P3280H	Missense	P	2	0.46	0.040404%	0.001592%	0.016310%	gnomAD	Other
209	<i>BRCA2</i>	c.9934A>G p.I3312V	Missense	VUS	3	0.69	0.060606%	0.001592%	0.016300%	gnomAD	Other
210	<i>BRCA2</i>	c.9976A>T p.K3326*	Nonsense	LP	2	0.46	0.040404%	0.646800%	1.091000%	gnomAD	European (Finnish)

ACMG Class.: ACMG (American College of Medical Genetics and Genomics) Classification; Freq.: frequency, gnomAD: The Genome Aggregation Database; P: pathogenic; LP: likely pathogenic; VUS: variant of uncertain significance