

Supp. Table S1. List of *BRCA1* pathogenic mutations found in Asian populations.

<i>BRCA1</i> mutation (nucleotide)	<i>BRCA1</i> mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
Duplication of exon 1 to exon 2		1 to 2	Large duplication	Oman	Omani	2		n/a	[1]
Deletion of exon 1 to exon 2		1 to 2	Large deletion	Oman	Omani	2		n/a	[1]
				Turkey	Turkish	17			[2]
Deletion of exon 1 to exon 3		1 to 3	Large deletion	Stanford (US)	Filipino	1		n/a	
Deletion of exon 1 to exon 8		1 to 8	Large deletion	Hong Kong	Chinese	1		n/a	
Deletion of exon 1 to exon 9		1 to 9	Large deletion	Japan	Japanese	1		n/a	
Deletion of exon 1 to exon 12		1 to 12	Large deletion	Hong Kong	Chinese	1		n/a	[3]
Deletion of exon 1 to exon 14		1 to 14	Large deletion	Malaysia	Chinese	1		n/a	[4]
c.34C>T	p.Gln12*	2	Nonsense	Hong Kong	Chinese	1		13	
c.61delA	p.Ile21Serfs*2	2	Deletion - frameshift	Malaysia	Indian	1	Asian	1	[5]
c.62_63insT	p.Glu23Argfs*18	2	Insertion - frameshift	Iran	Iranian	1		none	[6]
c.66dupA	p.Glu23Argfs*18	2	Insertion - frameshift	Pakistan	Pakistani, Punjabi	4		30	[7, 8]
				Malaysia	Chinese	1			[5]
				Vietnam	Vietnamese	1			[9]
				Hong Kong	Chinese	1			
				Turkey	Turkish	1			[10]
				Korea	Korean	1			[11]
				Stanford (US)	Chinese	1			
c.68_69delAG	p.Glu23Valfs*17	2	Deletion - frameshift	Malaysia	Indian	3		1988	[5]
				Singapore	Indian	2			[12]
				India	Indian	15			[13-16]
				Pakistan	Pathan, Punjabi	3			[7, 8]
				Iran	Iranian	1			[6]
				Iraq	Iraqi	1			[17]
				Syria	Syrian	1			[17]
				Turkey	Turkish	1			[18]
				Yemen	Yemenite	2			[17]
c.71G>A	p.Cys24Tyr	2	Missense	Japan	Japanese	1		1	
c.80+1G>T		IVS2	Intervening sequence	Korea	Korean	1		1	
Deletion of exon 3		3	Large deletion	Malaysia	Indian	3		n/a	
c.131G>T	p.Cys44Phe	3	Missense	Lebanon	Lebanese	2		9	[19]

BRCA1 mutation (nucleotide)	BRCA1 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian-specific ^a	BIC entries ^b	References/ Novel ^c
c.134+1G>T		IVS3	Intervening sequence	Malaysia	Chinese	1	Asian	1	[5]
c.134+2delT		IVS3	Intervening sequence	Malaysia	Chinese	1	Asian	1	[5]
c.134+2T>G		IVS3	Intervening sequence	China	Chinese	1		1	[20]
c.135-1G>C		IVS4	Intervening sequence	Malaysia	Indian	3	Asian	1	[5]
c.135-1G>T		IVS4	Intervening sequence	Pakistan	Punjabi	1		30	[8]
r.135_441dup; Duplication of exon 5 to exon 7	p.Gln148Ilefs*20	5 to 7	Large duplication	Stanford (US)	Chinese	1		n/a	
Duplication of exon 5 to exon 9		5 to 9	Large duplication	Turkey	Turkish	1		n/a	[2]
Deletion of exon 5 to exon 24		5 to 24	Large deletion	Los Angeles (US)	Japanese	1		n/a	
c.150delA	p.Lys50Asnfs*19	5	Deletion - frameshift	Malaysia	Indian	1	Asian	1	
c.178_179delCA	p.Gln60Valfs*5	5	Deletion - frameshift	India	Indian	1		none	[13]
c.178C>T	p.Gln60*	5	Nonsense	Japan	Japanese	1		4	
c.181T>G	p.Cys61Gly	5	Missense	Japan	Japanese	1		230	[21]
				Israel	Non-Ashkenazi Jew	1			[22]
c.188T>A	p.Leu63*	5	Nonsense	Japan	Japanese	10		6	[23]
	p.Cys64Arg	5	Missense	Japan	Japanese	1		n/a	
c.212+1G>T	p.Cys64*	IVS5	Intervening sequence	Hong Kong	Chinese	1		4	[24]
c.213-12A>G		IVS5	Intervening sequence	Korea	Korean	1		25	
				Malaysia	Chinese	1			[5]
				Stanford (US)	Filipino	1			
c.280C>T	p.Gln94*	6	Nonsense	Hong Kong	Chinese	1		none	Novel
c.302-2A>C		IVS6	Intervening sequence	Korea	Korean	1	Asian	1	[11]
c.321delT	p.Phe107Leufs*12	7	Deletion - frameshift	Los Angeles (US)	Japanese	1		1	
c.384_385delGGinsC	p.Met128Ilefs*35	7	Frameshift	Korea	Korean	1		none	Novel
c.390C>A	p.Tyr130*	7	Nonsense	Korea	Korean	27	Asian	1	[25]
				Japan	Japanese	1			[23]
				Stanford (US)	Chinese, Korean	2			
c.424C>G	p.Pro142Ala	7	Missense	Lebanon	Lebanese	1		none	[19]
c.431delA	p.Asn144fs	7	Deletion - frameshift	Pakistan	Punjabi	1		none	[8]
c.442-15del110	Stop 182	IVS7	Intervening sequence	Singapore	Chinese	2		none	[12]
c.456_457delCA	p.Ser153Cysfs*5	8	Deletion - frameshift	Japan	Japanese	1		1	
c.463C>T	p.Gln115*	8	Nonsense	China	Chinese	1		none	[20]

BRCA1 mutation (nucleotide)	BRCA1 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
c.470_471delCT	p.Ser157*	8	Deletion - frameshift	Hong Kong	Chinese	10		10	[24, 26]
				Japan	Japanese	1			[27]
				Malaysia	Chinese	3			[5]
				Pakistan	Punjabi	1			[8]
				Stanford (US)	Chinese	1			
c.502A>T	p.Lys168*	8	Nonsense	Hong Kong	Chinese	1		none	Novel
c.505C>T	p.Gln169*	8	Nonsense	Malaysia	Malay	1		5	
c.514C>T	p.Gln172*	8	Nonsense	Hong Kong	Chinese	1	Asian	2	
c.616C>T	p.Gln206*	10	Nonsense	China	Chinese	1		none	[20]
c.625_626ins20	Stop 240	10	Insertion - frameshift	Thailand	Thai	1	Asian	1	[28]
Deletion of exon 11		11	Large deletion	Turkey	Turkish	2		n/a	[2]
c.737T>G	p.Leu246Trp	11	Missense	Sri Lanka	Sri Lankan	1		none	[29]
c.775delG	p.Glu259Lysfs*39	11	Deletion - frameshift	Pakistan	Muhajir	1	Asian	1	[7]
c.829_830delAA	p.Asn277Tyrfs*9	11	Deletion - frameshift	Malaysia	Indian	1		none	Novel
c.850C>T	p.Gln284*	11	Nonsense	Malaysia	Indian	1		none	Novel
c.895_896delGT	p.Val299Argfs*5	11	Deletion - frameshift	Pakistan	Muhajir	1	Asian	3	[7]
c.898G>T	p.Glu300*	11	Nonsense	Singapore	Chinese	1		none	Novel
c.909delA	p.Glu303Aspfs*11	11	Deletion - frameshift	New Delhi (India)	Indian	1		none	[30]
c.922_923delAG	p.Ser308Glnfs*11	11	Deletion - frameshift	Korea	Korean	7	Asian	2	
c.922_924delAGCinsT	p.Ser308*	11	Frameshift	Korea	Korean	2		none	[25]
c.928C>T	p.Gln310*	11	Nonsense	Korea	Korean	4		none	[11]
c.929_933delAGCCT	p.Gln310Argfs*8	11	Deletion - frameshift	Hong Kong	Chinese	1		none	Novel
c.964delG	p.Ala322Leufs*19	11	Deletion - frameshift	Hong Kong	Chinese	1	Asian	1	
				Malaysia	Chinese	1			
c.969_970insC	p.Ser324Glnfs*2	11	Insertion - frameshift	Iran	Iranian	3		none	[31]
c.981_982delAT	p.Cys328*	11	Deletion - frameshift	Hong Kong	Chinese	1		9	[24]
				Malaysia	Chinese	1			[5]
				Korea	Korean	3			
				China	Chinese	4			[20]
c.1008delA	p.Glu337Lysfs*4	11	Deletion - frameshift	Pakistan	Punjabi	1		none	[7]
c.1016delA	p.Lys339Argfs*2	11	Deletion - frameshift	Hong Kong	Chinese	1		2	[24]
				Iran	Iranian	3			

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				Canada	Chinese	1			
c.1016dupA	p.Val340Glyfs*6	11	Insertion - frameshift	China	Chinese	1		49	[32]
c.1054delG	p.Glu352Asnfs*22	11	Deletion - frameshift	Korea	Korean	2		none	Novel
c.1054G>T	p.Glu352*	11	Nonsense	Japan	Japanese	1		5	[21]
				Malaysia	Indian	1			[5]
c.1066C>T	p.Gln356*	11	Nonsense	Hong Kong	Chinese	1		2	[26]
c.1104delA	p.Asp369Metfs*5	11	Deletion - frameshift	Malaysia	Chinese	1		none	Novel
c.1112delC	p.Pro371Leufs*3	11	Deletion - frameshift	Japan	Japanese	1		none	[23]
c.1116G>A	p.Trp372*	11	Nonsense	China	Chinese	1		6	[32]
c.1120delA	p.Thr374Hisfs*2	11	Deletion - frameshift	Japan	Japanese	1		none	[33]
c.1204G>T	p.Glu402*	11	Nonsense	Malaysia	Malay	2	Asian	3	[5]
c.1224delA	p.Val409*	11	Deletion - frameshift	Japan	Japanese	1		none	Novel
	p.Glu421*	11	Nonsense	Stanford (US)	Asian	1		n/a	
c.1267insAT	p.Ser423fs	11	Insertion - frameshift	Thailand	Thai	1		none	[34]
c.1279G>T	p.Glu427*	11	Nonsense	China	Chinese	1		none	[20]
c.1287dupA	p.Asp430Argfs*6	11	Insertion - frameshift	Japan	Japanese	1		7	
c.1357delG	p.Glu453Argfs*22	11	Deletion - frameshift	Pakistan	Punjabi	1		none	[7]
c.1392delC	p.Tyr465Ilefs*10	11	Deletion - frameshift	Singapore	Chinese	1		none	[35]
c.1405delG	p.Ala469Glnfs*6	11	Deletion - frameshift	Singapore	Chinese	1		none	[35]
c.1465G>T	p.Glu489*	11	Nonsense	China	Chinese	3		none	[36]
c.1471C>T	p.Gln491*	11	Nonsense	Pakistan	Punjabi	1		4	[8]
c.1480C>T	p.Gln494*	11	Nonsense	Korea	Korean	3		5	[11]
c.1501_1504delAAAAT	p.Lys501*	11	Deletion - frameshift	Pakistan	Muhajir	1	Asian	1	[7]
c.1504_1508delTTAAA	p.Leu502Alafs*2	11	Deletion - frameshift	Korea	Korean	2		29	
				Turkey	Turkish	1			[10]
				Stanford (US)	Filipino	1			
c.1507A>G	p.Lys503*	11	Nonsense	Japan	Japanese	1		none	[23]
c.1511dupG	p.Lys505*	11	Insertion - frameshift	Korea	Korean	2	Asian	2	[25]
c.1582_1588delACTCCTG	p.Thr528Lysfs*2	11	Deletion - frameshift	Pakistan	Pakistani	1	Asian	2	[37]
c.1612C>T	p.Gln538*	11	Nonsense	Pakistan	Punjabi	1		3	[8]
c.1651_1652insT	p.Ser551*	11	Insertion - frameshift	Pakistan	Balouchi	1		none	[7]
c.1660G>T	p.Glu554*	11	Nonsense	China	Chinese	1		none	[32]

<i>BRCAl</i> mutation (nucleotide)	<i>BRCAl</i> mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
	p.Gln563*	11	Nonsense	Stanford (US)	Filipino	2		n/a	
c.1728dupA	p.Glu577Argfs*9	11	Insertion - frameshift	Stanford (US)	Taiwanese	1		none	Novel
c.1741A>T	p.Lys581*	11	Nonsense	Iran	Iranian	1		none	[38]
c.1793T>G	p.Leu598*	11	Nonsense	Pakistan	Muhajir	1	Asian	1	[7]
c.1831delC	p.Leu611*	11	Deletion - frameshift	Korea	Korean	2		none	[11]
c.1837delA	p.Arg613Glyfs*13	11	Deletion - frameshift	Pakistan	Punjabi	1	Asian	1	[14]
c.1881_1884delCAGT	p.Ser628Glu fs*3	11	Deletion - frameshift	Singapore	Chinese	1		3	[12]
				Stanford (US)	Malay	1			
c.1921dupA	p.Ile641Asnfs*2	11	Insertion - frameshift	Los Angeles (US)	Indian	1		none	Novel
c.1922_1923insA	p.Asp642*	11	Insertion - frameshift	Pakistan	Punjabi	2		none	[7]
c.1936delA	p.Ser646Alafs*5	11	Deletion - frameshift	Korea	Korean	2		none	[11]
c.1952dupA	p.Lys652Glu fs*21	11	Insertion - frameshift	China	Chinese	1		2	[32]
c.1961delA	p.Lys654Serfs*47	11	Deletion - frameshift	Korea	Korean	7		32	[11]
				China	Chinese	1			[39]
c.1961dupA	p.Tyr655Valfs*18	11	Insertion - frameshift	Hong Kong	Chinese	1		9	[24]
				Pakistan	Pashtun	3			[7]
c.1996delC	p.Leu666Tyrfs*35	11	Deletion - frameshift	Malaysia	Malay	1		1	
c.2010_2011insTG	p.Gly671Trpfs*32	11	Insertion - frameshift	China	Chinese	1		none	[40]
c.2021delC	p.Pro674Leufs*27	11	Deletion - frameshift	Turkey	Turkish	1		none	[10]
	p.Lys679*	11	Nonsense	Stanford (US)	Asian/Caucasian	1		n/a	
c.2059C>T	p.Gln687*	11	Nonsense	Malaysia	Malay	1		1	
c.2110_2111delAA	p.Asn704Cysfs*7	11	Deletion - frameshift	China	Chinese	1		3	[20]
c.2147delG	p.Ser716Metfs*20	11	Deletion - frameshift	Pakistan	Punjabi	1		none	[7]
c.2158G>T	p.Glu720*	11	Nonsense	Israel	Druze	1		2	[22]
c.2166delC	p.Asn723Ilefs*13	11	Deletion - frameshift	Hong Kong	Chinese	1		none	Novel
c.2216_2217delAA	p.Lys739Serfs*3	11	Deletion - frameshift	Iran	Iranian	1		none	[6]
c.2248_2252delCTCAT	p.Leu750Valfs*10	11	Deletion - frameshift	China	Chinese	1		none	[32]
c.2253_2254delGT	p.Met751Ilefs*10	11	Deletion - frameshift	Hong Kong	Chinese	2	Asian	1	[41]
c.2269delG	p.Val757Phefs*8	11	Deletion - frameshift	Bangladesh	Bangladeshi	1		7	
				Pakistan	Muhajir, Pathan	2			[7, 8]
				Stanford (US)	Japanese	1			
c.2275C>T	p.Gln759*	11	Nonsense	China	Chinese	1		1	[39]

BRCA1 mutation (nucleotide)	BRCA1 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
c.2296_2297delAG	p.Ser766*	11	Deletion - frameshift	Korea	Korean	5		3	[11]
c.2299delA	p.Ser767Alafs*25	11	Deletion - frameshift	China	Chinese	1		6	[32]
c.2311_2312insC	p.Leu771Serfs*6	11	Insertion - frameshift	Singapore	Chinese	1		none	[35]
c.2354T>A	p.Leu785*	11	Nonsense	Korea	Korean	1		none	[11]
c.2357delT	p.Leu786Argfs*6	11	Deletion - frameshift	Turkey	Turkish	1		none	[10]
c.2389_2390delGA	p.Glu797Thrfs*3	11	Deletion - frameshift	Japan	Japanese	1		4	[27]
c.2506delG	p.Glu836Lysfs*10	11	Deletion - frameshift	Stanford (US)	Chinese	1		none	Novel
c.2513delA	p.Asn838Thrfs*8	11	Deletion - frameshift	Japan	Japanese	1	Asian	1	
	p.Tyr856His	11	Missense	Stanford (US)	Chinese	1		n/a	
c.2572C>T	p.Gln858*	11	Nonsense	China	Chinese	1		none	[20]
c.2577_2578insTT	p.Thr860Leufs*34	11	Insertion - frameshift	Hong Kong	Chinese	1		none	Novel
c.2603C>A	p.Ser868*	11	Nonsense	China	Chinese	1		none	[20]
c.2611_2612delCC	p.Pro871Valfs*31	11	Deletion - frameshift	Japan	Japanese	1		1	[21]
c.2617dupT	p.Ser873Phefs*30	11	Insertion - frameshift	Singapore	Chinese	1		1	[35]
c.2635G>T	p.Glu879*	11	Nonsense	Hong Kong	Chinese	1	Asian	4	[24]
				Malaysia	Malay	2			[42]
				Singapore	Chinese	1			
c.2671delT	p.Ser891Profs*2	11	Deletion - frameshift	China	Chinese	1		none	[20]
c.2679_2682delGAAA	p.Lys893Asnfs*106	11	Deletion - frameshift	Japan	Japanese	1		40	
c.2686delA	p.Ser896Valfs*104	11	Deletion - frameshift	Japan	Japanese	1		1	
c.2694dupA	p.Val899Serfs*4	11	Insertion - frameshift	China	Chinese	1		1	[32]
c.2695delG	p.Val899Serfs*101	11	Deletion - frameshift	Hong Kong	Chinese	1		none	Novel
c.2726dupA	p.Asn909Lysfs*6	11	Insertion - frameshift	Malaysia	Malay	1	Asian	5	
				Singapore	Malay	9			[43]
c.2740G>T	p.Glu914*	11	Nonsense	Korea	Korean	2		1	
c.2798_2799delIGT	p.Gly933Alafs*4	11	Deletion - frameshift	China	Chinese	1		none	[20]
c.2800C>T	p.Gln934*	11	Nonsense	Japan	Japanese	2	Asian	4	[23]
				California (US)	Asian	1			[44]
c.2864C>A	p.Ser955*	11	Nonsense	India	Indian	1		4	[13]
c.2871_2872insA	p.Phe958Ilefs*13	11	Insertion - frameshift	Turkey	Turkish	1		none	[45]
c.2934T>G	p.Tyr978*	11	Nonsense	Israel	Jew of Asian origin	23		25	[46]
c.2967delT	p.Phe989Leufs*11	11	Deletion - frameshift	Sri Lanka	Sri Lankan	1		none	[29]

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c.2981delG	p.Cys994Leufs*6	11	Deletion - frameshift	Korea	Korean	3		none	Novel
c.3008_3009delTT	p.Phe1003*	11	Deletion - frameshift	Japan	Japanese	1		5	
c.3076_3077ins76	Stop 1029	11	Insertion - frameshift	Malaysia	Chinese	1		none	Novel
c.3122C>G	p.Ser1041*	11	Nonsense	China	Chinese	1		none	[20]
c.3169_3172delAGTA	p.Ser1057fs	11	Deletion - frameshift	Pakistan	Balouchi	1		none	[34]
c.3181delA	p.Ile1061*	11	Deletion - frameshift	Thailand	Thai	2	Asian	2	[28]
c.3214delC	p.Leu1072*	11	Deletion - frameshift	Hong Kong Singapore	Chinese Chinese	1 1	Asian	2	[24]
c.3228_3229delAG	p.Gly1077Alafs*8	11	Deletion - frameshift	Korea	Korean	1		27	[11]
c.3258delA	p.Val1088Phefs*21	11	Deletion - frameshift	Korea	Korean	1		none	Novel
c.3262delG	p.Val1088Phefs*21	11	Deletion - frameshift	Singapore	Chinese	1		none	[35]
c.3266T>A	p.Leu1089*	11	Nonsense	Korea	Korean	1		none	Novel
c.3286C>T	p.Gln1096*	11	Nonsense	Hong Kong Pakistan	Chinese Mohajir	1 1	Asian	1	[7]
c.3288_3289delAA	p.Leu1098Serfs*4	11	Deletion - frameshift	Canada	Chinese	1		6	
c.3296delC	p.Pro1099Leufs*10	11	Deletion - frameshift	Korea	Korean	5		2	[11]
c.3330_3331insA	p.Gln1111Alafs*4	11	Insertion - frameshift	China	Chinese	1		1	[20]
c.3331_3334delCAAG	p.Gln1111Asnfs*5	11	Deletion - frameshift	India	Indian	1		40	[13]
c.3333delA	p.Glu1112Asnfs*5	11	Deletion - frameshift	Hong Kong Malaysia Mongolia	Chinese Chinese Mongolian	2 1 1	Asian	1	[47]
c.3342_3345delAGAA	p.Glu1115*	11	Deletion - frameshift	Hong Kong	Chinese	2	Asian	2	[24]
c.3359_3363delTTAAT	p.Val1120Aspfs*11	11	Deletion - frameshift	China	Chinese	2		none	[20, 32]
	p.Tyr1127*	11	Nonsense	Singapore	Chinese	1		n/a	
c.3424delG	p.Ala1142Hisfs*13	11	Deletion - frameshift	Singapore	Chinese	1		none	Novel
c.3442delG	p.Glu1148Argfs*7	11	Deletion - frameshift	Japan Los Angeles Stanford (US)	Japanese Korean Chinese	2 2 1	Asian	2	[23]
c.3450delT	p.Asp1151Metfs*4	11	Deletion - frameshift	China	Chinese	1		none	[32]
c.3477_3480delAAAAG	p.Ile1159Metfs*50	11	Deletion - frameshift	India Los Angeles (US)	Indian Japanese/English	1 1		3	[14]
c.3553G>T	p.Glu1185*	11	Nonsense	India	Indian	1		none	[15]

BRCA1 mutation (nucleotide)	BRCA1 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
c.3580_3581ins4		11	Insertion - frameshift	Japan	Japanese	1		none	Novel
c.3607C>T	p.Arg1203*	11	Nonsense	Turkey	Turkish	1		35	[45]
				Hong Kong	Chinese	1			
c.3627dupA	p.Glu1210Argfs*9	11	Insertion - frameshift	Korea	Korean	1		7	[25]
c.3640G>T	p.Glu1214*	11	Nonsense	Japan	Japanese	2		4	[21]
c.3661G>T	p.Glu1221*	11	Nonsense	Malaysia	Chinese	1		8	
				China	Chinese	1			
c.3693dupT	p.Gly1232Trpfs*2	11	Insertion - frameshift	Pakistan	Punjabi	1		none	[8]
c.3700_3704delGTAAA	p.Val1234Glnfs*9	11	Deletion - frameshift	Turkey	Turkish	1		61	[10]
c.3748G>T	p.Glu1250*	11	Nonsense	Thailand	Thai	2		98	[34]
				India	Indian	1			[48]
c.3756_3759delGTCT	p.Ser1253Argfs*10	11	Deletion - frameshift	Hong Kong	Chinese	1		124	
c.3767_3768delCA	p.Thr1256Argfs*10	11	Deletion - frameshift	Hong Kong	Chinese	1		none	Novel
c.3770_3771delAG	p.Glu1257Glyfs*9	11	Deletion - frameshift	China	Chinese	1		22	[32]
				Malaysia	Chinese	1			[5]
				Pakistan	Punjabi	2			[7]
				Los Angeles (US)	Chinese	1			
				Stanford (US)	Chinese	1			
c.3813dupT	p.Asn1272*	11	Insertion - frameshift	Korea	Korean	4		none	[11]
c.3856delA	p.Ser1286Valfs*21	11	Deletion - frameshift	Malaysia	Malay	1	Asian	2	
c.3858_3861delTGAG	p.Ser1286Argfs*20	11	Deletion - frameshift	Hong Kong	Chinese	1		2	[24]
				Singapore	Chinese	2			[12]
				Stanford (US)	Chinese	1			
c.3869_3870delAA	p.Lys1290Metfs*4	11	Deletion - frameshift	Hong Kong	Chinese	1		6	
c.3893C>A	p.Ser1298*	11	Nonsense	Malaysia	Chinese	1		6	
c.3916_3917delTT	p.Leu1306Aspfs*23	11	Deletion - frameshift	China	Chinese	2		11	[32]
c.3991C>T	p.Gln1331*	11	Nonsense	Korea	Korean	3		none	[11]
c.4041_4042delAG	p.Gly1348Asnfs*7	11	Deletion - frameshift	Israel	Druze	1		7	[22]
c.4049dupG	p.Glu1352Glyfs*4	11	Insertion - frameshift	Hong Kong	Chinese	1		none	[24]
c.4065_4068delTCAA	p.Asn1355Lysfs*10	11	Deletion - frameshift	Hong Kong	Chinese	2		133	[24]
				Korea	Korean	1			[11]
				India	Indian	1			[14]

BRCA1 mutation (nucleotide)	BRCA1 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
				Pakistan	Punjabi, Sindhi	4			[7]
				Stanford (US)	Chinese	1			
c.4092_4093delCT	p.Leu1365Argfs*2	11	Deletion - frameshift	Korea	Korean	1		none	[11]
c.4094delT	p.Leu1365*	11	Deletion - frameshift	India	Indian	1		none	[13]
c.4117G>T	p.Glu1373*	12	Nonsense	Israel	Palestinian Arab	1		9	[49]
c.4148C>G	p.Ser1383*	12	Nonsense	Hong Kong	Chinese	1	Asian	2	
				Malaysia	Chinese	3			
c.4158_4162delCTCTC	p.Ser1387Glu fs*2	12	Deletion - frameshift	India	Indian	1		none	[50]
c.4165_4166delAG	p.Ser1389*	12	Deletion - frameshift	Pakistan	Muhajir	2		11	[7]
c.4183C>T	p.Gln1395*	12	Nonsense	India	Indian	1		28	[16]
				Pakistan	Punjabi	1			[8]
Deletion of exon 13 to exon 15		13 to 15	Large deletion	Korea	Korean	1		n/a	[11]
				Malaysia	Indian	1			[4]
				Singapore	Indian	1			[51]
				Indonesia	Indonesian	1			[52]
				Los Angeles (US)	Korean	1			
Duplication of exon 13		13	Large duplication	Singapore	Chinese	2		n/a	[12, 51]
c.4253T>G	p.Leu1418*	13	Nonsense	Iran	Iranian	1		none	[38]
c.4258C>T	p.Gln1420*	13	Nonsense	Malaysia	Chinese	1	Asian	2	[5]
c.4327C>T	p.Arg1443*	13	Nonsense	Malaysia	Indian	2		126	
				Singapore	Chinese	1			[35]
				India	Indian	1			[50]
c.4335_4338dupAGAA	p.Gln1447Argfs*16	13	Insertion - frameshift	Korea	Korean	2		none	[11]
c.4338_4339ins4	Stop 1462	13	Insertion - frameshift	Stanford (US)	Korean	1		1	
c.4372C>T	p.Gln1458*	14	Nonsense	Hong Kong	Chinese	4		3	[24]
c.4389delC		14	Deletion - frameshift	Turkey	Turkish	1		none	[10]
c.4484+1delG		IVS14	Intervening sequence	Turkey	Turkish	1		none	[10]
c.4485-1G>A		IVS14	Intervening sequence	Pakistan	Pashtun, Punjabi	3	Asian	2	[7]
c.4485-2A>G		IVS14	Intervening sequence	Japan	Japanese	1		7	[21]
c.4508C>A	p.Ser1503*	15	Nonsense	Pakistan	Pakistani, Punjabi	6		1	[7, 8]
c.4524G>A	p.Trp1508*	15	Nonsense	Korea	Korean	1		23	
				Israel	Moslem	1			[22]

BRCA1 mutation (nucleotide)	BRCA1 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
	p.Gln1538*	15	Nonsense	Philippines	Filipino	1		n/a	[53]
	p.Glu1540*	15	Nonsense	Stanford (US)	Fijian	1		n/a	
c.4656C>G	p.Tyr1552*	15	Nonsense	Hong Kong	Chinese	1		2	[24]
	p.Glu1559*	15	Nonsense	Stanford (US)	Chinese	1		n/a	
c.4675+1G>T		IVS15	Intervening sequence	Stanford (US)	Chinese	1		none	Novel
c.4695dupA	p.Ser1566Ilefs*8	16	Insertion - frameshift	Hong Kong	Chinese	1		none	[24]
c.4780_4793del14	p.Pro1594Cysfs*23	16	Deletion - frameshift	Hong Kong	Chinese	1		none	Novel
c.4801A>T	p.Lys1601*	16	Nonsense	Singapore	Chinese	1	Asian	2	[12]
				Los Angeles (US)	Chinese	1			
c.4838dupG	p.Ser1613Argfs*9	16	Insertion - frameshift	India	Indian	1		none	[16]
c.4903G>T	p.Glu1635*	16	Nonsense	Hong Kong	Chinese	1		none	[24]
c.4910delC	p.Pro1637Glnfs*3	16	Deletion - frameshift	China	Chinese	1		none	[36]
	p.Ser1655Phe	16	Missense	Japan	Japanese	1		n/a	
c.4981G>T	p.Glu1661*	16	Nonsense	Korea	Korean	1		1	[11]
c.4986+1G>A		IVS16	Intervening sequence	China	Uyghur	1		1	[39]
Deletion of exon 17 to exon 19		17 to 19	Large deletion	Turkey	Turkish	1		none	[2]
r.4987_5277del291, Deletion of exon 17 to exon 20	p.Met1663_Lys1759 del97	17 to 20	Large deletion	Hong Kong	Chinese	1	Asian	1	[24]
c.5030_5033delCTAA	p.Thr1677Ilefs*2	17	Deletion - frameshift	Korea	Korean	6		17	[54]
				Pakistan	Punjabi	1			[8]
				Taiwan	Chinese	1			[55]
c.5059delG	p.Val1687Leufs*3	17	Deletion - frameshift	Stanford (US)	Asian	3		none	Novel
c.5065dupA	p.Met1689Asnfs*6	17	Insertion - frameshift	Korea	Korean	2		none	Novel
c.5074+1G>A		IVS17	Intervening sequence	Malaysia	Indian	1	Asian	1	
c.5074+1G>T		IVS17	Intervening sequence	Korea	Korean	1		3	[11]
c.5074+3A>G		IVS17	Intervening sequence	Japan	Japanese	1		1	
c.5075-1G>T		IVS17	Intervening sequence	China	Chinese	1		none	[20]
c.5075-2A>T		IVS17	Intervening sequence	Sri Lanka	Sri Lankan	1		1	[29]
Deletion of exon 18		18	Large deletion	Turkey	Turkish	3		none	[2]
Deletion of exon 18 to exon 19		18 to 19	Large deletion	Turkey	Turkish	1		none	[2]
c.5080G>T	p.Glu1694*	18	Nonsense	Korea	Korean	6		12	[56]
c.5123C>A	p.Ala1708Glu	18	Missense	Israel	Non-Ashkenazi Jew	1		46	[22]

BRCA1 mutation (nucleotide)	BRCA1 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
c.5148T>G	p.Tyr1716*	18	Nonsense	India	Indian	1		none	[13]
c.5152+1G>C		IVS18	Intervening sequence	Korea	Korean	3		2	[11]
c.5153-1G>A		IVS18	Intervening sequence	Malaysia	Malay	1		5	
c.5153-2delA		IVS18	Intervening sequence	Korea	Korean	1		8	
c.5161C>T	p.Gln1721*	19	Nonsense	Israel	Moslem	1		none	[22]
	p.Gln1721*	19	Nonsense	Japan	Japanese	1		n/a	
c.5184delG	p.Met1728Ilefs*2	19	Deletion - frameshift	Korea	Korean	1		none	Novel
c.5193+1G>C	p.Trp1718Serfs*2	IVS19	Intervening sequence	Hong Kong	Chinese	1		none	[24]
c.5193+2insT		IVS19	Intervening sequence	Japan	Japanese	1		none	Novel
c.5194-1G>A		IVS19	Intervening sequence	Stanford (US)	Chinese	1		1	
c.5194-?_5277+?del, Deletion of exon 20		20	Large deletion	Japan	Japanese	1		1	
Duplication of exon 20 to exon 24		20 to 24	Large duplication	Bangladesh	Bangladeshi	1		n/a	
c.5251C>T	p.Arg1751*	20	Nonsense	Malaysia	Indian	1		34	[5]
				Singapore	Malay	1			
				Los Angeles (US)	Vietnamese	1			
				Stanford (US)	Asian, Filipino, Vietnamese	5			
c.5257dupA	p.Arg1753Lysfs*77	20	Insertion - frameshift	Pakistan	Punjabi	1		none	[8]
c.5260G>T	p.Glu1754*	20	Nonsense	Korea	Korean	1		4	
				India	Indian	3			[48]
c.5266dupC	p.Ser1755?fs	20	Insertion - frameshift	Turkey	Turkish	6		1093	[2, 10, 57]
c.5266C>T	p.Gln1756*	20	Nonsense	Korea	Korean	1		none	[54]
c.5278-1G>A		IVS20	Intervening sequence	Japan	Japanese	1		3	
c.5278-1G>C		IVS20	Intervening sequence	Japan	Japanese	1		none	
				Pakistan	Punjabi	1			[8]
Deletion of exon 21 to exon 22		21 to 22	Large deletion	Malaysia	Malay	3		n/a	
Deletion of exon 21		21	Large deletion	Los Angeles (US)	Pakistani	1		n/a	
c.5289delG	p.Leu1764*	21	Deletion - frameshift	Sri Lanka	Sri Lankan	1		none	[29]
c.5299delT	p.Cys1767Valfs*26	21	Deletion - frameshift	Malaysia	Indian	1		none	Novel
c.5300_5301delGT	p.Cys1767Leufs*62	21	Deletion - frameshift	Korea	Korean	1		none	Novel
c.5310dupG	p.Gly1770fs	21	Insertion - frameshift	Pakistan	Balouchi	1		none	[34]

BRCA1 mutation (nucleotide)	BRCA1 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
c.5328dupC	p.Thr1777Hisfs*53	21	Insertion - frameshift	Malaysia	Malay	2		2	
c.5332+1delG		IVS21	Intervening sequence	China	Chinese	1		none	[32]
c.5332+1G>C		IVS21	Intervening sequence	China	Chinese	1		none	[20]
c.5335delC	p.Gln1779Asnfs*14	22	Deletion - frameshift	Philippines	Filipino	1	Asian	5	[53]
				Taiwan	Chinese	1			[55]
				Stanford (US)	Filipino	1			
c.5353C>T	p.Gln1785*	22	Nonsense	Hong Kong	Chinese	1		4	
c.5363G>T	p.Gly1788Val	22	Missense	China	Chinese	1		17	[32]
c.5406+1_5406+3delGTA	p.Asp1778Glyfs*27	IVS22	Intervening sequence	Hong Kong	Chinese	3		none	[24]
c.5406+7A>G	p.Asp1778Glyfs*27	IVS22	Intervening sequence	Hong Kong	Chinese	2		none	Novel
c.5406+33A>T		IVS22	Intervening sequence	Korea	Korean	1		2	
				Stanford (US)	Filipino	1			
c.5444G>A	p.Trp1815*	23	Nonsense	Korea	Korean	10		4	[11]
				Lebanon	Lebanese	2			[19]
c.5467+1G>A		IVS23	Intervening sequence	Korea	Korean	6		5	
c.5468-1_5474delGCAATTGG		IVS23	Intervening sequence	China	Chinese	1		none	[32]
				Korea	Korean	1			
Deletion of exon 24		24	Large deletion	Bangladesh	Bangladeshi	1		n/a	
c.5470_5477delATTGGGCA	p.Ile1824Aspfs*3	24	Deletion - frameshift	China	Chinese	4	Asian	2	[20]
				Korea	Korean	7			[11]
c.5483delG	p.Cys1828Leufs*6	24	Deletion - frameshift	Korea	Korean	2		none	[11]
c.5496_5506 delGGTGACCCGAGinsA	Stop 1842	24	Frameshift	Korea	Korean	20	Asian	3	[25]
				Stanford (US)	Korean	1			
c.5503C>T	p.Arg1835*	24	Nonsense	Pakistan	Punjabi	2		74	[8]
				Japan	Japanese	1			
				Turkey	Turkish	1			[57]
				Philippines	Filipino	1			[53]
				Hong Kong	Chinese	1			
c.5521delA	p.Ser1841Valfs*2	24	Deletion - frameshift	China	Chinese	2		1	[20, 32]
c.5536C>T	p.Gln1846*	24	Nonsense	Taiwan	Chinese	1		2	[55]

BRCA1 reference sequence (GenBank accession no.: U14680.1). Numbering of the nucleotides begins at the transcription start site ATG. Mutations for nucleotide

and protein sequences are designated according to the HGVS nomenclature guidelines.

^a Asian-specific mutations; *BRCA1* mutations that have been reported only in the Asian ethnicities in Breast Cancer Information Core (BIC) Database.

^b none: Mutations that have not been listed in BIC Database. n/a: Information on large genome re-arrangements are not available in the BIC Database.; or the nucleotide change data was missing and thus cannot be matched to the BIC Database.

^c Novel mutations that have not been previously reported in literature nor listed in the BIC Database.

Supp. Table S2. List of *BRCA2* pathogenic mutations found in Asian populations.

<i>BRCA2</i> mutation (nucleotide)	<i>BRCA2</i> mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian-specific ^a	BIC entries ^b	References/Novel ^c
c.-39-1_-39delGA	p.0?	IVS1 to Exon 2	Intervening sequence	Hong Kong	Chinese	1		none	Novel
c.97G>T	p.Glu33*	3	Nonsense	Korea	Korean	4		none	[11]
g.8730_24909dup16180			Large duplication	Singapore	Chinese	1		n/a	[51]
c.262_263delCT	p.Leu88Alafs*12	3	Deletion - frameshift	Malaysia	Malay	5		4	[5]
				China	Chinese	1			[32]
c.276dupA	p.Ser93Ilefs*8	3	Insertion - frameshift	Korea	Korean	1	Asian	1	[11]
c.289G>T	p.Glu97*	3	Nonsense	Korea	Korean	1		none	Novel
c.370delA	p.Met124Trpfs*12	4	Deletion - frameshift	Korea	Korean	3		none	[11]
c.464_468delGAGAT	p.Arg155Lysfs*26	5	Deletion - frameshift	China	Chinese	1		none	[20]
c.466_467delGA	p.Asp156*	5	Deletion - frameshift	Korea	Korean	2		none	Novel
c.470_474delAGTCA	p.Lys157Serfs*24	5	Deletion - frameshift	Stanford (US)	Chinese	1		1	
				China	Chinese	1			[20]
c.475G>A	p.Val159Met	5	Missense	Korea	Korean	2		2	[11]
c.475+1G>A		IVS5	Intervening sequence	Japan	Japanese	1		2	
c.584C>G	p.Ser195*	7	Nonsense	Korea	Korean	1		none	Novel
c.613_614delAG	p.Ser205Phefs*9	7	Deletion - frameshift	Stanford (US)	Chinese	1		none	Novel
c.658_659delGT	p.Val220Ilefs*4	8	Deletion - frameshift	Korea	Korean	2		38	[11]
c.682-1G>C		IVS8	Intervening sequence	Sri Lanka	Sri Lankan	1		1	[58]
c.755delA	p.Asp252Alafs*25	9	Deletion - frameshift	Stanford (US)	Chinese	1		1	
c.771_775delTCAAA	p.Asn257Lysfs*17	9	Deletion - frameshift	Korea	Korean	7		14	[25]
c.774_775delAA	p.Glu260Serfs*15	9	Deletion - frameshift	Malaysia	Chinese	1		none	Novel
				Singapore	Chinese	1			
c.809C>G	p.Ser270*	10	Nonsense	Malaysia	Chinese	1	Asian	1	
c.905_906insA	p.Ser303Leufs*2	10	Insertion - frameshift	Canada	Chinese	1		none	Novel
c.910G>T	p.Glu304*	10	Nonsense	Singapore	Chinese	1		none	Novel
	p.Cys315Ser	10	Missense	Stanford (US)	Chinese	1		n/a	
c.956dupA	p.Asn319Lysfs*8	10	Insertion - frameshift	Malaysia	Chinese	1		4	[5]
c.994_995insAA	p.Ile332Lysfs*18	10	Insertion - frameshift	China	Chinese	1		none	[32]
c.994delA	p.Ile332Phefs*17	10	Deletion - frameshift	Korea	Korean	1		3	[11]
c.1082delA	p.Asn361Metfs*6	10	Deletion - frameshift	China	Chinese	1		none	[20]

BRCA2 mutation (nucleotide)	BRCA2 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian-specific ^a	BIC entries ^b	References/ Novel ^c
c.1261C>T	p.Gln421*	10	Nonsense	Hong Kong	Chinese	1		1	[24]
c.1278delA	p.Asp427Thrfs*3	10	Deletion - frameshift	Japan	Japanese	1		2	[27]
c.1303dupA	p.Arg435Lysfs*17	10	Insertion - frameshift	China	Chinese	1		none	[20]
c.1310_1313delAAGA	p.Lys437fs	10	Deletion - frameshift	Korea	Korean	1		10	[11]
c.1317delT	p.Thr441Leufs*19	10	Deletion - frameshift	Korea	Korean	1		none	Novel
c.1399A>T	p.Lys467*	10	Nonsense	Los Angeles (US)	Korean	2	Asian	2	
				Korea	Korean	26			[25]
				China	Chinese	1			[39]
c.1514delT	p.Ile505Asnfs*4	10	Deletion - frameshift	Korea	Korean	3		none	[11]
c.1583delA	p.Asn528Thrfs*30	10	Deletion - frameshift	Stanford (US)	Japanese	2		none	Novel
c.1763_1766delATAA	p.Asn588Serfs*25	10	Deletion - frameshift	Israel	Moslem	2		5	[22]
c.1765_1766delAA	p.Lys589Valfs*7	10	Deletion - frameshift	Pakistan	Punjabi	1		none	[8]
c.1773_1776delTTAT	p.Ile591Metfs*22	10	Deletion - frameshift	Los Angeles (US)	Thai	1		3	
				Stanford (US)	Vietnamese	1			
				Malaysia	Chinese	1			[5]
c.1813dupA	p.Ile605Asnfs*11	10	Insertion - frameshift	Japan	Japanese	1		76	[23]
				Malaysia	Indian	1			
				Korea	Korean	2			[25]
c.1813delA	p.Ile605Tyrfs*9	10	Deletion - frameshift	China	Chinese	1		16	[20]
				Thailand	Thai	1			[28]
c.1815dupA	p.Pro606Thrfs*10	10	Insertion - frameshift	Philippines	Filipino	1		4	[53]
c.1832C>A	p.Ser611*	10	Nonsense	China	Chinese	3		14	[32]
c.1855C>T	p.Gln619*	10	Nonsense	Pakistan	Punjabi	1		2	[8]
c.1881delA	p.Pro628Hisfs*16	10	Deletion - frameshift	China	Chinese	1		none	[20]
c.1901delC	p.Ala634Valfs*10	10	Deletion - frameshift	China	Chinese	1		none	[20]
c.2175_2176insA	p.Val726Serfs*25	11	Insertion - frameshift	Sri Lanka	Sri Lankan	4		none	[58]
c.2254_2257delGACT	p.Asp752Phefs*19	11	Deletion - frameshift	Saudi Arabia	Palestinian Arab	1	Asian	1	[59]
c.2339C>G	p.Ser780*	11	Nonsense	Hong Kong	Chinese	1		none	Novel
c.2435delA	p.Asn812Ilefs*13	11	Deletion - frameshift	Korea	Korean	2		1	[54]
c.2439_2440insT	p.Pro814Serfs*13	11	Insertion - frameshift	Sri Lanka	Sri Lankan	1		none	[58]
c.2442delC	p.Met815Trpfs*10	11	Deletion - frameshift	China	Chinese	1		none	[20]
				Taiwan	Taiwanese	1			[60]

BRCA2 mutation (nucleotide)	BRCA2 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
				Hong Kong	Chinese	1			
c.2446delG	p.Glu816Lysfs*9	11	Deletion - frameshift	Pakistan	Muhajir	1	Asian	1	[7]
c.2471_2476delTAAATG	p.Leu824*	11	Deletion - frameshift	Malaysia	Malay	1	Asian	1	[5]
				Indonesia	Indonesian	2			[52]
c.2588dupA	p.Asn863Lysfs*18	11	Insertion - frameshift	China	Chinese	1		11	[20]
c.2594_2597delAAGA	p.Glu866Leufs*7	11	Deletion - frameshift	Singapore	Chinese	1		none	[12]
c.2595delA	p.Glu866Lysfs*8	11	Deletion - frameshift	Hong Kong	Chinese	2		none	[24]
c.2612C>G	p.Ser871*	11	Nonsense	Stanford (US)	Vietnamese	1		none	Novel
c.2636_2637delCT	p.Ser879*	11	Deletion - frameshift	Malaysia	Chinese	1	Asian	1	[5]
c.2657delA	p.Asn886Metfs*9	11	Deletion - frameshift	Korea	Korean	1		none	Novel
c.2798_2799delCA	p.Thr933Argfs*2	11	Deletion - frameshift	Korea	Korean	7	Asian	1	[11]
c.2808_2811delACAA	p.Ala938Profs*21	11	Deletion - frameshift	Stanford (US)	Japanese	1		109	
				Singapore	Malay	1			
				China	Chinese	2			[20, 32]
				Malaysia	Chinese, Malay	3			
				Turkey	Turkish	1			[61]
				Japan	Japanese	1			
				Hong Kong	Chinese	3			[24]
c.2812_2815delGCAA	p.Ala938Profs*21	11	Deletion - frameshift	Indonesia	Indonesian	1		1	[52]
c.2830A>T	p.Lys944*	11	Nonsense	Malaysia	Chinese	1		6	
c.2845delT	p.Tyr949Metfs*11	11	Deletion - frameshift	Taiwan	Taiwanese	1		none	[60]
c.2912T>G	p.Leu971*	11	Nonsense	Korea	Korean	1		none	[11]
c.2954_2957delAAAA	p.Lys985Ilefs*5	11	Deletion - frameshift	Korea	Korean	1		none	Novel
c.2957delA	p.Asn986Ilefs*5	11	Deletion - frameshift	Pakistan	Muhajir	1		none	[7]
c.2990T>G	p.Leu997*	11	Nonsense	Pakistan	Punjabi	1		none	[8]
c.3018delA	p.Gly1007Valfs*36	11	Deletion - frameshift	Korea	Korean	6		none	[11]
c.3109C>T	p.Gln1037*	11	Nonsense	Los Angeles (US)	Chinese	4		5	
				Malaysia	Chinese	1			
				Hong Kong	Chinese	15			[24]
				Pakistan	Memon	2			[7]
				Stanford (US)	Chinese	3			
c.3167_3170delAAAA	p.Gln1056Argfs*3	11	Deletion - frameshift	China	Chinese	1		2	[32]

BRCA2 mutation (nucleotide)	BRCA2 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian-specific ^a	BIC entries ^b	References/ Novel ^c
c.3187C>T	p.Gln1063*	11	Nonsense	Korea	Korean	3		none	Novel
c.3189_3192delGTCA	p.Ser1064Ilefs*12	11	Deletion - frameshift	Turkey	Turkish	1		1	[57]
c.3195_3198delTAAT	p.Asn1066Leufs*10	11	Deletion - frameshift	Japan	Japanese	1		2	
				China	Chinese	2			[20, 32]
c.3202delG	p.Val1068Tyrfs*9	11	Deletion - frameshift	Hong Kong	Chinese	1		none	[24]
	p.Gln1073*	11	Nonsense	Stanford (US)	Chinese	1		n/a	
c.3248delA	p.Asn1083Ilefs*4	11	Deletion - frameshift	Korea	Korean	1		none	Novel
c.3265C>T	p.Gln1089*	11	Nonsense	Japan	Japanese	1		1	
c.3352_3356delTTAGA	p.Leu1118Argfs*7	11	Deletion - frameshift	Korea	Korean	3		none	[11]
c.3362C>G	p.Ser1121*	11	Nonsense	Philippines	Filipino	2	Asian	4	[53]
c.3570delG	p.Lys1191Serfs*6	11	Deletion - frameshift	Philippines	Filipino	1	Asian	1	[53]
c.3599_3600delGT	p.Cys1200*	11	Deletion - frameshift	Japan	Japanese	1		6	
				Malaysia	Chinese	1			
				Korea	Korean	3			[11]
				Philippines	Filipino	1			[53]
c.3685delG	p.Val1229Phefs*10	11	Deletion - frameshift	Pakistan	Sindhi	1	Asian	1	[7]
c.3744_3747delTGAG	p.Ser1248Argfs*10	11	Deletion - frameshift	Los Angeles (US)	Korean	1		8	
				Korea	Korean	24			[11]
				China	Chinese	1			[20]
c.3751dupA	p.Thr1251Asnfs*14	11	Insertion - frameshift	Iran	Iranian	1		none	[6]
c.3824_3827delTAGA	p.Ile1275Lysfs*8	11	Deletion - frameshift	Pakistan	Punjabi	1		none	[8]
c.3845_3846delICT	p.Thr1282Serfs*3	11	Deletion - frameshift	Singapore	Chinese	1		none	Novel
c.3865_3868delAAAT	p.Lys1289Alafs*3	11	Deletion - frameshift	Malaysia	Indian	1		3	
c.4021delT	p.Ser1341Glnfs*33	11	Deletion - frameshift	Los Angeles (US)	Japanese	1		none	Novel
c.4037_4038delICT	p.Thr1346Serfs*5	11	Deletion - frameshift	Malaysia	Malay	2	Asian	5	[5]
				Philippines	Filipino	2			[53]
c.4078delG	p.Asp1360Ilefs*14	11	Deletion - frameshift	Bangladesh	Bangladeshi	1		none	Novel
c.4121delA	p.Lys1374Argfs*14	11	Deletion - frameshift	Hong Kong	Chinese	1		none	[24]
c.4151delT	p.Leu1384Cysfs*4	11	Deletion - frameshift	Singapore	Chinese	2		none	[12]
c.4398delA	p.Leu1466Phefs*5	11	Deletion - frameshift	Stanford (US)	Chinese	1		none	Novel
c.4459_4460insC	p.Lys1487Thrfs*27	11	Insertion - frameshift	Stanford (US)	Korean	1		none	Novel
c.4460_4461delAA	p.Lys1487Thrfs*26	11	Deletion - frameshift	Stanford (US)	Chinese	1		none	Novel

BRCA2 mutation (nucleotide)	BRCA2 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
c.4478_4481delAAAAG	p.Glu1493Valfs*10	11	Deletion - frameshift	Vietnam	Vietnamese	1		33	[9]
c.4563_4564delGT	p.Leu1522Glyfs*6	11	Deletion - frameshift	Hong Kong	Chinese	1		none	[24]
c.4570_4573delTTTC	p.Phe1524Ilefs*18	11	Deletion - frameshift	Bangladesh	Bangladeshi	1		none	Novel
c.4631delA	p.Asn1544Thrfs*24	11	Deletion - frameshift	Stanford (US)	Filipino	1		13	
				Philippines	Filipino	4			[53]
c.4638_4639insT	p.Asp1547*	11	Insertion - frameshift	India	Indian	1		none	[13]
c.4722dupA	p.Asp1575Argfs*3	11	Insertion - frameshift	Los Angeles (US)	Japanese/ England/ Ireland	1		none	Novel
c.4731dupA	p.Glu1577fs	11	Insertion - frameshift	Pakistan	Pathan	1		none	[34]
c.4829_4830delTG	p.Val1610Glyfs*4	11	Deletion - frameshift	Pakistan	Parsi, Punjabi	2		4	[7, 8]
c.4894_4895delAG	p.Ser1632Tyrfs*6	11	Deletion - frameshift	Korea	Korean	2		none	[11]
c.4936_4939delGAAA	p.Glu1646Glnfs*23	11	Deletion - frameshift	Israel	Non-Ashkenazi Jew	1		28	[22]
c.4965delC	p.Tyr1655*	11	Deletion - frameshift	Stanford (US)	Chinese	2		2	
c.4999dupT	p.Ser1667Phefs*10	11	Insertion - frameshift	India	Indian	1		none	[16]
c.5014dupT	p.Tyr1672Leufs*5	11	Insertion - frameshift	India	Indian	1		none	[16]
c.5073dupA	p.Trp1692Metfs*3	11	Insertion - frameshift	Malaysia	Chinese	1		29	
				Turkey	Turkish	1			[10]
c.5074_5075insA	p.Trp1692*	11	Insertion - frameshift	Pakistan	Punjabi	1		4	[7]
c.5116_5119delAATA	p.Asn1706Leufs*5	11	Deletion - frameshift	Korea	Korean	2		1	[11]
				Thailand	Thai	2			[34]
c.5130_5133delTGTA	p.Tyr1710*	11	Deletion - frameshift	Los Angeles (US)	Chinese	1		8	
				Japan	Japanese	1			
c.5141_5144delATTT	p.Tyr1714Cysfs*10	11	Deletion - frameshift	Korea	Korean	4		2	
c.5164_5165delAG	p.Ser1722Tyrfs*4	11	Deletion - frameshift	Stanford (US)	Chinese	1	Asian	2	
				China	Chinese	1			[32]
				Hong Kong	Chinese	3			[24]
c.5171delT	p.Ile1724Lysfs*17	11	Deletion - frameshift	China	Chinese	1		none	[32]
c.5218_5223delTTAAGT	p.Leu1740_Ser1741del	11	In frame deletion	Hong Kong	Chinese	1		none	[24]
c.5238dupT	p.Asn1747*	11	Insertion - frameshift	Hong Kong	Chinese	1		8	
c.5299_5307delAAACTTGATdel	p.Lys1767_Asp1769del	11	In frame deletion	Thailand	Thai	5	Asian	1	[28]

BRCA2 mutation (nucleotide)	BRCA2 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
c.5351delA	p.Asn1784Thrfs*7	11	Deletion - frameshift	Korea	Korean	2		5	[11]
c.5471delA	p.Asn1824Metfs*16	11	Deletion - frameshift	Korea	Korean	2		none	[11]
c.5482_5486delAAATT	p.Lys1828Valfs*4	11	Deletion - frameshift	Los Angeles (US)	Japanese	1		4	
c.5576_5579delTTAA	p.Ile1859Lysfs*3	11	Deletion - frameshift	Malaysia	Chinese	1		29	
				Japan	Japanese	4			[23]
				Korea	Korean	15			[25]
				China	Chinese	2			[20, 32]
				Singapore	Chinese	1			[12]
				Lebanon	Lebanese	1			[19]
c.5622_5628delTAAGGAA	p.Lys1875Thrfs*32	11	Deletion - frameshift	Bangladesh	Bangladeshi	1		none	Novel
c.5641_5644delAAAT	p.Lys1881Glnfs*27	11	Deletion - frameshift	Pakistan	Sindhi	1		3	[7]
c.5645C>A	p.Ser1882*	11	Nonsense	Malaysia	Chinese	1		27	
				Korea	Korean	1			[11]
				Japan	Japanese	2			[23]
				Stanford (US)	Japanese	1			
c.5656C>T	p.Gln1886*	11	Nonsense	Korea	Korean	4		2	[11]
c.5675delG	p.Gly1892Valfs*17	11	Deletion - frameshift	Japan	Japanese	1		none	Novel
c.5681dupA	p.Tyr1894*	11	Insertion - frameshift	China	Chinese	1		5	[20]
				Stanford (US)	Asian/Caucasian, Chinese	3			
c.5722_5723delICT	p.Leu1908Argfs*2	11	Deletion - frameshift	Stanford (US)	Chinese	1		42	
				China	Chinese	1			[20]
				Hong Kong	Chinese	1			[24]
				Pakistan	Punjabi	1			[7]
c.5734G>T	p.Glu1912*	11	Nonsense	Pakistan	Punjabi	1		none	[8]
c.5851_5854delAGTT	p.Ser1951Trpfs*11	11	Deletion - frameshift	Stanford (US)	Chinese	1		11	
				Hong Kong	Chinese	1			[24]
				India	Indian	1			[13]
c.5855_5856insAGTT	p.Glu1953Valfs*8	11	Insertion - frameshift	Philippines	Filipino	1		none	
c.5864C>G	p.Ser1955*	11	Nonsense	China	Chinese	2		none	[32]
c.5935dupA	p.Ser1979Lysfs*24	11	Insertion - frameshift	Stanford (US)	Indonesian/Czech	1		none	Novel
c.5952dupA	p.Ser1985Ilefs*18	11	Insertion - frameshift	India	Indian	1		none	[16]

BRCA2 mutation (nucleotide)	BRCA2 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian-specific ^a	BIC entries ^b	References/ Novel ^c
c.5967dupA	p.Asp1990Argfs*13	11	Insertion - frameshift	Malaysia	Malay	1	Asian	1	[5]
c.5994delA	p.Val1999Cysfs*5	11	Deletion - frameshift	Korea	Korean	4		none	Novel
c.6012_6016delAGATA	p.Asp2005Tyrfs*11	11	Deletion - frameshift	Los Angeles (US)	Chinese	1		none	
c.6033_6034delTT	p.Ser2012Glnfs*5	11	Deletion - frameshift	China	Chinese	1		none	[20]
c.6033_6034insGT	p.Ser2012Valfs*29	11	Insertion - frameshift	Iran	Iranian	1		none	[6]
c.6082G>T	p.Glu2028*	11	Nonsense	Korea	Korean	3		none	Novel
c.6096dupT	p.Ile2033Tyrfs*16	11	Insertion - frameshift	Hong Kong	Chinese	1		none	[24]
c.6148_6149insAA	p.Val2050Glnfs*2	11	Insertion - frameshift	India	Indian	1		none	[14]
c.6154delT	p.Ser2052Hisfs*18	11	Deletion - frameshift	Thailand	Thai	2	Asian	1	[28]
c.6240dupA	p.Glu2081Argfs*4	11	Insertion - frameshift	Hong Kong	Chinese	1		3	
c.6263_6267delCTGAG	p.Glu2089*	11	Deletion - frameshift	Japan	Japanese	1		none	Novel
c.6325_6326delGT	p.Val2109*	11	Deletion - frameshift	Malaysia	Chinese	1	Asian	1	[5]
c.6353_6366del14	p.Val2118Glyfs*6	11	Deletion - frameshift	Korea	Korean	1		none	[11]
c.6405_6409delCTTAA	p.Asn2135Lysfs*3	11	Deletion - frameshift	India	Indian	1		13	[50]
c.6428delC	p.Ser2143*	11	Nonsense	Turkey	Turkish	1		none	[10]
c.6446_6450delTTAAA	p.Ile2149Serfs*25	11	Deletion - frameshift	Japan	Japanese	1		2	
c.6449_6450insTA	p.Lys2150Asnfs*19	11	Insertion - frameshift	China	Chinese	1		1	[32]
c.6451_6452insAA	p.Val2151fs	11	Insertion - frameshift	Pakistan	Punjabi	1		none	[7]
c.6468_6469delTC	p.Gln2157Ilefs*18	11	Deletion - frameshift	Japan	Japanese	1		24	
				Taiwan	Taiwanese	1			[60]
				Pakistan	Punjabi	1			[7]
c.6485_6486delAA	p.Lys2162Thrfs*13	11	Deletion - frameshift	Los Angeles (US)	Asian	1		none	Novel
c.6541G>T	p.Gly2181*	11	Nonsense	Malaysia	Malay	1		none	Novel
c.6547G>T	p.Glu2183*	11	Nonsense	Indonesia	Indonesian	2		none	[52]
c.6553delG	p.Ala2185Leufs*6	11	Deletion - frameshift	Korea	Korean	3		1	[11]
c.6591_6592delTG	p.Glu2198Asnfs*4	11	Deletion - frameshift	China	Chinese	3		17	[32]
c.6620_6623delCAAA	p.Thr2207Ilefs*2	11	Deletion - frameshift	Stanford (US)	Japanese	1		none	
c.6626_6627delTA	p.Ile2209Argfs*15	11	Deletion - frameshift	Japan	Japanese	1		1	
c.6627_6634del8	p.Ile2209Metfs*13	11	Deletion - frameshift	Israel	Moslem	1		none	[22]
c.6634_6637delTGTT	p.Cys2212Leufs*16	11	Deletion - frameshift	Singapore	Malay	1		none	[12]
c.6645_6648delCTCC	p.Tyr2215*	11	Nonsense	China	Kazakh	1		none	[39]
c.6673delA	p.Thr2225Glnfs*4	11	Deletion - frameshift	Malaysia	Chinese	1	Asian	1	[5]

BRCA2 mutation (nucleotide)	BRCA2 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian-specific ^a	BIC entries ^b	References/ Novel ^c
c.6678delA	p.Ala2227Glnfs*2	11	Deletion - frameshift	Hong Kong	Chinese	1		1	
c.6715G>T	p.Glu2239*	11	Nonsense	Malaysia	Chinese	1	Asian	1	[5]
c.6724_6725delGA	p.Asp2242Phefs*2	11	Deletion - frameshift	Korea	Korean	8		none	[25]
c.6746_6747insA	p.Thr2250Hisfs*11	11	Insertion - frameshift	Stanford (US)	Filipino	1		none	Novel
c.6800C>A	p.Ser2267*	11	Nonsense	China	Chinese	1		none	[32]
c.6952C>T	p.Arg2318*	13	Nonsense	Korea	Korean	2	Asian	5	[11]
				Japan	Japanese	4			[23]
				Stanford (US)	Japanese	1			
c.7006delC	p.Arg2336Alafs*31	13	Deletion - frameshift	Korea	Korean	2		none	Novel
	p.Arg2336His	13	Missense	Stanford (US)	Chinese	1		n/a	
c.7007G>C	p.Arg2336Pro	13	Missense	Israel	Non-Ashkenazi Jew	1		5	[22]
c.7007G>T; Deletion of exon 13	p.Gly2313Alafs*31	13	Large deletion	Hong Kong	Chinese	3	Asian	1	[24]
c.7007G>A	p.Arg2336His	13	Missense	Pakistan	Punjabi	1		19	[34]
Deletion of exon 14 to exon 23		14 to 23	Large deletion	Los Angeles (US)	Asian	1		n/a	
Deletion of exon 14 to exon 16		14 to 16	Large deletion	Malaysia	Indian	1		n/a	[4]
c.7133C>G	p.Ser2378*	14	Nonsense	Malaysia	Chinese	1	Asian	1	
				Singapore	Chinese	1			
c.7258G>T	p.Glu2420*	14	Nonsense	Korea	Korean	2		none	[11]
c.7379_7382delACAA	p.Asn2460Thsfs*8	14	Deletion - frameshift	Stanford (US)	Chinese	1		1	
c.7379delA	p.Asn2460Thsfs*9	14	Deletion - frameshift	Stanford (US)	Chinese	1		none	Novel
c.7409dupT	p.Thr2471Hisfs*4	14	Insertion - frameshift	Hong Kong	Chinese	1		none	[24]
Duplication of exon 15 to exon 18		15 to 18	Large duplication	Stanford (US)	Japanese, Japanese/Caucasian	5		n/a	
r.7436_7805del370, Deletion of exon 15 to exon 16	p.Asp2479Glyfs*46	15 to 16	Large deletion	Hong Kong	Chinese	1		none	[24]
c.7467dupT	p.Ile2490Tyrfs*7	15	Insertion - frameshift	Hong Kong	Chinese	1		none	[24]
c.7471C>T	p.Gln2491*	15	Nonsense	Hong Kong	Chinese	1		1	[24]
c.7480C>T	p.Arg2494*	15	Nonsense	Los Angeles (US)	Korean	1		11	
				Stanford (US)	Korean	1			
				Korea	Korean	51			[25]
c.7490dupA	p.Lys2498Glufs*41	15	Insertion - frameshift	Hong Kong	Chinese	1		none	Novel
c.7516C>T	p.Gln2506*	15	Nonsense	Korea	Korean	1		none	Novel

BRCA2 mutation (nucleotide)	BRCA2 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian-specific ^a	BIC entries ^b	References/ Novel ^c
c.7538delC	p.Ala2513Glufs*11	15	Deletion - frameshift	Korea	Korean	1		none	[11]
c.7558C>T	p.Arg2520*	15	Nonsense	Malaysia	Chinese	1		45	
				Korea	Korean	1			
				Japan	Japanese	1			
c.7617+1G>A, Deletion of exon 15		IVS15	Intervening sequence	Singapore	Chinese	1		4	[12]
c.7655_7658delTTAA	p.Ile2552Thrfs*95	16	Deletion - frameshift	China	Chinese	1		1	[36]
c.7673_7674delAG	p.Glu2558Valfs*7	16	Deletion - frameshift	Malaysia	Malay	1		4	
c.7676insAAAC	p.Ser2559fs	16	Insertion - frameshift	Thailand	Thai	1		none	[34]
c.7697dupA	p.Asp2566Glufs*5	16	Insertion - frameshift	Singapore	Chinese	1		none	Novel
c.7757G>A	p.Trp2586*	16	Nonsense	Los Angeles (US)	German/ Ireland/ Japanese	2		5	
c.7806-9T>G		IVS16	Intervening sequence	Hong Kong	Chinese	1		none	Novel
c.7878G>A	p.Trp2626*	17	Nonsense	Los Angeles (US)	Chinese	2		none	
				Hong Kong	Chinese	5			[24]
c.7963delC	p.Gln2655Asnfs*2	17	Deletion - frameshift	China	Chinese	1		none	[32]
c.7976+1G>A		IVS17	Intervening sequence	Malaysia	Indian, Chinese	2		1	[5]
				China	Chinese	1			[20]
				Hong Kong	Chinese	1			[24]
c.7976+5G>A	p.Ala2603_Arg2659del57	IVS17	Intervening sequence	Hong Kong	Chinese	1		none	Novel
c.7977-1G>T		IVS17	Intervening sequence	Stanford (US)	Chinese	1		1	
c.8002_8008dupAGAAGAT	p.Arg2669Leufs*2	18	Insertion - frameshift	Korea	Korean	1		none	[11]
c.8009C>T	p.Ser2670Leu	18	Missense	Japan	Japanese	1		9	
	p.Ser2670*	18	Nonsense	Los Angeles (US)	Japanese	1		n/a	
c.8023A>G	p.Ile2675Val	18	Missense	Japan	Japanese	2		none	Novel
c.8029delG	p.Glu2677Lysfs*17	18	Deletion - frameshift	Stanford (US)	Chinese/ Pacific Islander	1		2	
c.8068_8069delIGT	p.Val2690Phefs*2	18	Deletion - frameshift	Hong Kong	Chinese	2		1	[24]
c.8140C>T	p.Gln2714*	18	Nonsense	Korea	Korean	3		1	
c.8207_8208insAG	p.Leu2737Alafs*2	18	Insertion - frameshift	Stanford (US)	Chinese	1		none	Novel
c.8234dupT	p.Thr2746Aspfs*18	18	Insertion - frameshift	China	Chinese	1	Asian	1	[20]

BRCA2 mutation (nucleotide)	BRCA2 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian-specific ^a	BIC entries ^b	References/ Novel ^c
c.8234_8237delTGAC	p.Leu2745Glnfs*31	18	Deletion - frameshift	Malaysia	Chinese	1		2	
c.8299_8300insAC	p.Pro2767Hisfs*11	18	Insertion - frameshift	Korea	Korean	1		none	[11]
c.8314G>T	p.Glu2772*	18	Nonsense	Korea	Korean	2		none	[25]
c.8329A>T	p.Lys2777*	18	Nonsense	Korea	Korean	1		none	Novel
c.8331+1G>A		IVS18	Intervening sequence	Stanford (US)	Indonesian	1		none	
				China	Chinese	1			[32]
c.8348_8349insC	p.Arg2784Serfs*14	19	Insertion - frameshift	India	Indian	1		none	[14]
c.8400_8401del4ins5	Stop 2811	19	Frameshift	China	Chinese	2		none	[32]
c.8400_8402delinsAAAA	p.Phe2801Lysfs*11	19	Frameshift	Hong Kong	Chinese	1		none	Novel
c.8435_8436ins19		19	Insertion - frameshift	Japan	Japanese	1		none	Novel
c.8470A>T	p.Arg2824*	19	Nonsense	Hong Kong	Chinese	1		none	Novel
c.8504C>A	p.Ser2835*	20	Nonsense	Japan	Japanese	1		1	[23]
				Los Angeles (US)	Indonesian/German/Dutch	1		n/a	
c.8537_8538delAG	p.Glu2846Glyfs*22	20	Deletion - frameshift	Korea	Korean	1		75	[11]
				Yemen	Yemenite	3			[62]
c.8589dupA	p.Ala2864Serfs*5	20	Insertion - frameshift	Japan	Japanese	1		none	[33]
c.8633-2A>T		IVS20	Intervening sequence	Korea	Korean	1		none	[11]
r.8633_8754del122, Deletion of exon 21	p.Glu2878Glyfs*5	21	Large deletion	Hong Kong	Chinese	1		none	[24]
c.8668delC	p.Leu2890*	21	Deletion - frameshift	Japan	Japanese	1		none	Novel
c.8677C>T	p.Gln2893*	21	Nonsense	Japan	Japanese	1		none	
				Israel	Non-Ashkenazi Jew	1			[22]
c.8717_8718delAA	p.Glu2906Glyfs*12	21	Deletion - frameshift	Korea	Korean	1		none	[11]
c.8820_8823delACAA	p.Gln2941Leufs*34	22	Deletion - frameshift	China	Chinese	2		none	[20, 32]
c.8827_8828insG	p.Gln2943Argfs*7	22	Insertion - frameshift	Korea	Korean	1		none	[11]
c.8869C>T	p.Gln2957*	22	Nonsense	Malaysia	Indian	1	Asian	1	[5]
c.8890dupA	p.Arf2964Lysfs*54	22	Insertion - frameshift	Singapore	Chinese	1		none	[12]
c.8912delA	p.Lys2971Serfs*5	22	Deletion - frameshift	Pakistan	Muhajir	1	Asian	1	[7]
c.8915delT	p.Leu2972Cysfs*4	22	Deletion - frameshift	Singapore	Chinese	1		none	[12]
c.8950delT	p.Ser2984Glnfs*4	22	Deletion - frameshift	China	Chinese	1		none	[20]
c.8953+1G>A		IVS22	Intervening sequence	Stanford (US)	Malay	1		none	Novel

BRCA2 mutation (nucleotide)	BRCA2 mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian- specific ^a	BIC entries ^b	References/ Novel ^c
c.8954-5A>G		IVS22	Intervening sequence	Canada	Chinese	1		none	Novel
Deletion of exon 23 to exon 24		23 to 24	Large deletion	Malaysia	Chinese	1		n/a	
c.8958_8961delACTG	p.Leu2987Valfs*13	23	Deletion - frameshift	Singapore	Chinese	1		none	Novel
c.8991T>G	p.Tyr2997*	23	Nonsense	Korea	Korean	2		none	[25]
c.9007G>T	p.Gly3003*	23	Nonsense	China	Chinese	1		none	[32]
c.9027delT	p.His3010Ilefs*18	23	Deletion - frameshift	Turkey	Turkish	1		1	[45]
c.9028ins4	p.His3010Leufs*22	23	Insertion - frameshift	Israel	Moslem	1		none	[22]
c.9076C>T	p.Gln3026*	23	Nonsense	Korea	Korean	10		3	[11]
c.9097dupA	p.Thr3033Asnfs*11	23	Insertion - frameshift	Korea	Korean	3		none	[11]
				Hong Kong	Chinese	2			[24]
c.9097delA	p.Thr3033Leufs*29	23	Deletion - frameshift	Malaysia	Chinese	1		none	
				Korea	Korean	3			
				Singapore	Chinese	1			[12]
c.9098_9099insA	p.Gln3034Serfs*10	23	Insertion - frameshift	China	Chinese	2		25	[32]
				Malaysia	Chinese	1			[5]
c.9100_9101insC	p.Gln3034Profs*10	23	Insertion - frameshift	Turkey	Turkish	2		none	[63]
c.9105T>G	p.Tyr3035*	23	Nonsense	Korea	Korean	2		none	Novel
c.9117G>A	p.Pro3039=	23	Synonymous	Canada	Chinese	1		14	
				Korea	Korean	7			[11]
				Japan	Japanese	2			[23]
c.9117+1G>A		IVS23	Intervening sequence	Korea	Korean	1		1	
c.9118-7_9121del11		IVS23	Intervening sequence	Korea	Korean	1		none	Novel
c.9134delT	p.Leu3045Tyrfs*17	24	Deletion - frameshift	Korea	Korean	1		none	Novel
c.9253dupA	p.Thr3085Asnfs*26	24	Insertion - frameshift	Korea	Korean	2		19	[11]
c.9253delA	p.Thr3085Glnfs*19	24	Deletion - frameshift	Korea	Korean	6		none	[25]
				China	Kazakh	1			[39]
c.9257-1G>A		IVS24	Intervening sequence	Israel	Moslem	1		2	[22]
c.9257-1G>A		IVS24	Intervening sequence	Lebanon	Lebanese	1		none	[19]
c.9275_9276delAT	p.Tyr3092Phefs*18	25	Deletion - frameshift	Korea	Korean	5		none	[11]
c.9294C>G	p.Tyr3098*	25	Nonsense	Hong Kong	Chinese	3		17	
				Stanford (US)	Chinese	1			
c.9317G>A	p.Trp3106*	25	Nonsense	Los Angeles (US)	Vietnamese	2		1	

<i>BRCA2</i> mutation (nucleotide)	<i>BRCA2</i> mutation (protein)	Exon	Mutation type	Location	Ethnicity	No. of cases	Asian-specific ^a	BIC entries ^b	References/ Novel ^c
r.9354_9816del463	p.Met3118Ilefs*3	25 to 27	Large deletion	Hong Kong	Chinese	1		none	
c.9356_9357delTAinsG	p.Leu3119*	25	Frameshift	China	Chinese	1		none	[32]
c.9380G>A	p.Trp3127*	25	Nonsense	Los Angeles (US)	Indian/Pakistani	1		5	
c.9382C>T	p.Arg3128*	25	Nonsense	Hong Kong Japan	Chinese Japanese	1 1		50	[23]
c.9393delC	p.Lys3132Asnfs*31	25	Deletion - frameshift	Hong Kong	Chinese	1		none	[24]
c.9401delG	p.Gly3134Alafs*29	25	Deletion - frameshift	Hong Kong	Chinese	1		2	
c.9430delT	p.Ser3144Leufs*19	25	Deletion - frameshift	Pakistan	Pakistani	1		none	[8]
c.9440dupC	p.Ala3148Cysfs*2	25	Insertion - frameshift	Korea	Korean	2		none	Novel
c.9771delA	p.Glu3258Argfs*17	27	Deletion - frameshift	India	Indian	1		none	[14]
c.10150C>T	p.Arg3384*	27	Nonsense	Korea Hong Kong	Korean Chinese	1 1		none	[64] [24]

BRCA2 reference sequence (GenBank accession no.: U43746.1). Numbering of the nucleotides begins at the transcription start site ATG. Mutations for nucleotide and protein sequences are designated according to the HGVS nomenclature guidelines.

^a Asian-specific mutations; *BRCA2* mutations that have been reported only in the Asian ethnicities in Breast Cancer Information Core (BIC) Database.

^b none: Mutations that have not been listed in BIC Database. n/a: Information on large genome re-arrangements are not available in the BIC Database.; or the nucleotide change data was missing and thus cannot be matched to the BIC Database.

^c Novel mutations that have not been reported in literature nor listed in BIC database.

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