

Table S2 Variant details of the East Asian assemblage in the ExAC database

Gene	Transcript	AAChange	avsnp147	ExAC_EAS	SIFT	Polyphen2_HVAR	PROVEAN	FATHMM	MutationTaster	MutationAssessor
BRCA2	NM_000059	c.1-40_1-41del	rs758732038	0.0001	.	.	.	.	.	.
BRCA2	NM_000059	c.92G>T/p.W31L	rs397508045	0.0001	D	D	D	T	D	M
BRCA2	NM_000059	c.640_642del/p.214_214del	rs80359588	0.0001	.	.	.	.	.	.
BRCA2	NM_000059	c.951dupA/p.T317fs	rs756186207	0.0001	.	.	.	.	.	.
BRCA2	NM_000059	c.1399A>T/p.K467X	rs80358427	0.0001	.	.	.	.	A	.
BRCA2	NM_000059	c.2440delC/p.P814fs	rs397507627	0.0001	.	.	.	.	.	.
BRCA2	NM_000059	c.3080G>A/p.S1027N	rs191744583	0.0001	D	D	N	T	D	M
BRCA2	NM_000059	c.3220A>T/p.S1074C	rs145605603	0.0001	D	P	D	T	N	M
BRCA2	NM_000059	c.3330A>C/p.E1110D	rs369294255	0.0001	D	P	D	T	D	M
BRCA2	NM_000059	c.3598_3599del/p.C1200fs	rs80359391	0.0001	.	.	.	.	.	.
BRCA2	NM_000059	c.4258G>T/p.D1420Y	rs28897727	0.0001	D	B	D	T	N	M
BRCA2	NM_000059	c.4559C>T/p.T1520I	rs747993489	0.0001	D	B	D	T	N	M
BRCA2	NM_000059	c.4567G>C/p.G1523R	rs587781418	0.0001	D	D	D	T	D	H
BRCA2	NM_000059	c.5102A>C/p.Q1701P	rs751709685	0.0001	D	P	D	T	N	M
BRCA2	NM_000059	c.5624A>C/p.K1875T	rs587782583	0.0001	D	B	D	T	N	M
BRCA2	NM_000059	c.5645C>A/p.S1882X	rs80358785	0.0001	.	.	.	.	A	.
BRCA2	NM_000059	c.5951A>G/p.K1984R	rs781732299	0.0001	D	D	D	D	D	M
BRCA2	NM_000059	c.6818_6820del/p.2273_2274del	rs746033637	0.0001	.	.	.	.	.	.
BRCA2	NM_000059	c.7054C>A/p.P2352T	rs776714935	0.0001	D	P	N	D	D	M
BRCA2	NM_000059	c.7670C>T/p.A2557V	rs775219538	0.0001	D	D	N	D	D	M
BRCA2	NM_000059	c.7697dupA/p.D2566fs	rs397507934	0.0001	.	.	.	.	.	.
BRCA2	NM_000059	c.7796A>C/p.E2599A	rs780715340	0.0001	D	D	N	D	D	M
BRCA2	NM_000059	c.8255_8257del/p.2752_2753del	rs397507971	0.0001	.	.	.	.	.	.
BRCA2	NM_000059	c.8360G>A/p.R2787H	rs80359078	0.0001	T	D	N	T	D	M

BRCA2	NM_000059	c.8775G>T/p.Q2925H	rs80359136	0.0001	D	D	N	T	D	M
BRCA2	NM_000059	c.8972G>A/p.R2991H	rs80359150	0.0001	D	B	N	T	D	M
BRCA2	NM_000059	c.9097A>C/p.T3033P	rs766308212	0.0001	D	D	N	T	D	M
BRCA2	NM_000059	c.9401G>T/p.G3134V	rs80359215	0.0001	D	P	D	D	D	M
BRCA2	NM_000059	c.9838C>T/p.P3280S	rs55835607	0.0001	D	D	N	T	D	M
BRCA2	NM_000059	c.10043A>G/p.N3348S	rs761094613	0.0001	T	P	N	T	D	M
BRCA2	NM_000059	c.4574A>C/p.H1525P	rs397507336	0.0002	D	D	D	T	N	M
BRCA2	NM_000059	c.6086A>G/p.E2029G	rs80358847	0.0002	D	B	D	T	N	M
BRCA2	NM_000059	c.7480C>T/p.R2494X	rs80358972	0.0002	.	.	.	.	A	.
BRCA2	NM_000059	c.8918G>A/p.R2973H	rs80359143	0.0002	D	D	N	T	N	M
BRCA2	NM_000059	c.9538C>T/p.L3180F	rs200598289	0.0002	D	D	N	D	D	M
BRCA2	NM_000059	c.10150C>T/p.R3384X	rs397507568	0.0002	.	.	.	.	A	.
BRCA2	NM_000059	c.7488G>C/p.K2496N	rs774994294	0.0003	D	P	N	D	N	M
BRCA2	NM_000059	c.9106C>G/p.Q3036E	rs202155613	0.0005	D	B	N	T	D	M
BRCA2	NM_000059	c.9875C>T/p.P3292L	rs56121817	0.0005	D	P	D	T	D	M
BRCA2	NM_000059	c.5969A>C/p.D1990A	rs148618542	0.0006	D	B	D	T	D	M
BRCA2	NM_000059	c.8525G>A/p.R2842H	rs80359105	0.0006	D	D	N	D	D	M
BRCA2	NM_000059	c.623T>G/p.V208G	rs80358865	0.0008	D	D	N	T	D	M
BRCA2	NM_000059	c.8356G>A/p.A2786T	rs80359077	0.0008	D	P	N	D	D	M
BRCA2	NM_000059	c.7522G>A/p.G2508S	rs80358978	0.0015	D	D	N	D	D	M
BRCA2	NM_000059	c.8702G>A/p.G2901D	rs80359129	0.0016	D	D	N	T	D	M
BRCA2	NM_000059	c.8954-5_8954-2del	rs587782878	0.0021	.	.	.	.	.	.
FANCA	NM_000135	c.4219delA/p.I1407fs	rs778136548	0.0001	.	.	.	.	.	.
FANCA	NM_000135	c.4117A>G/p.T1373A	rs753944130	0.0001	D	P	N	D	N	M
FANCA	NM_000135	c.3828+5G>C	rs1599430488	0.0001	.	.	.	.	.	.
FANCA	NM_000135	c.3665C>T/p.P1222L	rs374537936	0.0001	D	B	D	D	N	M

FANCA	NM_000135	c.3418A>T/p.N1140Y	rs774278686	0.0001	D	B	D	D	N	L
FANCA	NM_000135	c.2852G>A/p.R951Q	rs755922289	0.0001	D	P	D	D	D	.
FANCA	NM_000135	c.2843A>C/p.D948A	rs193172749	0.0001	T	P	D	D	N	L
FANCA	NM_000135	c.2716G>A/p.A906T	rs763769211	0.0001	D	D	N	D	N	M
FANCA	NM_000135	c.2609T>C/p.F870S	rs746372834	0.0001	D	D	D	D	D	M
FANCA	NM_000135	c.2505-5T>G	rs768436599	0.0001	.	.	.	.	.	.
FANCA	NM_000135	c.2477C>T/p.T826M	rs765888048	0.0001	D	P	D	D	N	M
FANCA	NM_000135	c.2021C>T/p.S674L	rs17232973	0.0001	D	D	D	D	N	M
FANCA	NM_000135	c.2015-4G>A	rs373954227	0.0001	.	.	.	.	.	.
FANCA	NM_000135	c.1833dupT/p.K612_I613delinsX	rs746516255	0.0001	.	.	.	.	.	.
FANCA	NM_000135	c.1798C>T/p.R600C	rs765036744	0.0001	T	P	D	D	N	M
FANCA	NM_000135	c.1742C>G/p.S581C	rs747762620	0.0001	D	B	D	D	N	L
FANCA	NM_000135	c.1289C>T/p.A430V	rs772567344	0.0001	T	B	D	D	D	L
FANCA	NM_000135	c.1144C>T/p.Q382X	rs769718381	0.0001	.	.	.	.	A	.
FANCA	NM_000135	c.821T>C/p.L274P	rs764838403	0.0001	D	D	D	T	D	M
FANCA	NM_000135	c.709+5G>A	rs759877008	0.0001	.	.	.	.	.	.
FANCA	NM_000135	c.338C>T/p.S113L	rs149903404	0.0001	D	P	N	T	N	M
FANCA	NM_000135	c.154C>T/p.R52X	rs773159223	0.0001	.	.	.	.	A	.
FANCA	NM_000135	c.3524C>T/p.P1175L	rs147017625	0.0002	D	B	D	D	D	L
FANCA	NM_000135	c.2213C>G/p.P738R	rs762333391	0.0002	D	D	D	D	N	M
FANCA	NM_000135	c.1398C>G/p.S466R	rs565303230	0.0002	D	D	D	D	D	M
FANCA	NM_000135	c.1237C>T/p.R413C	rs780135578	0.0002	D	B	D	D	N	L
FANCA	NM_000135	c.1072C>G/p.L358V	rs748337423	0.0002	D	D	N	D	N	M
FANCA	NM_000135	c.987_990del/p.T329fs	rs772359099	0.0002	.	.	.	.	.	.
FANCA	NM_000135	c.3482C>A/p.T1161K	rs142833057	0.0003	D	B	D	D	N	M
FANCA	NM_000135	c.2941T>C/p.C981R	rs191943709	0.0003	D	D	D	D	D	M

FANCA	NM_000135	c.2248G>T/p.V750L	rs747723074	0.0003	D	B	N	D	N	M
FANCA	NM_000135	c.1781C>A/p.P594H	rs780295697	0.0003	D	D	D	D	D	M
FANCA	NM_000135	c.1777-1G>C	rs755104393	0.0003	.	.	.	.	D	.
FANCA	NM_000135	c.1675G>A/p.E559K	rs201323171	0.0005	T	P	N	D	D	M
FANCA	NM_000135	c.596+5C>T	rs758345423	0.0005	.	.	.	.	.	.
FANCA	NM_000135	c.1634G>T/p.S545I	rs200922390	0.0007	D	D	D	D	D	M
FANCA	NM_000135	c.953G>T/p.R318M	rs72552377	0.0007	D	P	D	T	N	M
FANCA	NM_000135	c.3550C>T/p.R1184W	rs201492940	0.0012	D	B	D	D	N	L
FANCA	NM_000135	c.3068A>G/p.E1023G	rs756005374	0.0012	D	B	D	D	D	L
FANCA	NM_000135	c.2395C>T/p.P799S	rs762439008	0.0012	D	D	D	D	N	M
FANCA	NM_000135	c.4232C>T/p.P1411L	rs201494304	0.0015	D	P	D	D	D	L
FANCA	NM_000135	c.4225C>T/p.R1409W	rs139478274	0.0015	D	P	D	D	N	M
FANCA	NM_000135	c.1772G>A/p.R591Q	rs778093769	0.0021	D	B	D	D	D	M
FANCA	NM_000135	c.3476G>C/p.C1159S	rs762837582	0.0024	D	D	D	D	D	M
FANCA	NM_000135	c.1901-3C>A	rs17226526	0.0034	.	.	.	.	.	.
FANCC	NM_000136	c.1079C>T/p.P360L	rs730881721	0.0001	D	B	D	T	N	M
FANCC	NM_000136	c.1072+5G>C	rs774613862	0.0001	.	.	.	.	.	.
FANCC	NM_000136	c.971A>C/p.E324A	rs774439572	0.0001	D	P	D	T	N	M
FANCC	NM_000136	c.745A>G/p.S249G	rs539583288	0.0001	D	D	D	T	D	M
FANCC	NM_000136	c.622G>A/p.G208R	rs772563185	0.0001	D	D	D	T	D	M
FANCC	NM_000136	c.454A>T/p.N152Y	rs772984619	0.0001	D	D	D	T	D	M
FANCC	NM_000136	c.274T>C/p.W92R	rs745424828	0.0001	T	P	D	T	D	M
FANCC	NM_000136	c.1513G>A/p.A505T	rs780179187	0.0002	T	D	D	T	N	M
FANCC	NM_000136	c.743C>G/p.P248R	rs779641307	0.0002	D	D	D	T	D	M
FANCC	NM_000136	c.436_438del/p.146_146del	rs761347179	0.0006	.	.	.	.	.	.
FANCC	NM_000136	c.239T>C/p.I80T	rs4647419	0.0006	D	P	D	T	N	M

FANCC	NM_000136	c.1595G>A/p.R532K	rs55939573	0.0007	T	D	N	T	D	M
FANCC	NM_000136	c.1000C>T/p.R334W	rs140348260	0.0011	D	P	D	T	N	L
FANCC	NM_000136	c.1345G>A/p.V449M	rs1800367	0.0014	D	P	N	T	N	M
FANCC	NM_000136	c.860A>C/p.H287P	rs76486610	0.0014	D	P	D	T	D	M
FANCD2	NM_033084	c.398A>C/p.K133T	rs775540976	0.0001	T	P	N	T	D	M
FANCD2	NM_033084	c.760C>G/p.L254V	rs751774917	0.0001	T	P	N	T	D	M
FANCD2	NM_033084	c.784G>T/p.V262F	rs757891672	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.1098+4A>G	rs664233	0.0001	.	.	.	.	.	.
FANCD2	NM_033084	c.1304T>C/p.I435T	rs771062648	0.0001	D	B	D	T	D	M
FANCD2	NM_033084	c.1306C>A/p.L436M	rs373898927	0.0001	D	D	N	T	D	M
FANCD2	NM_033084	c.1318C>T/p.Q440X	rs762406982	0.0001	.	.	.	.	A	.
FANCD2	NM_033084	c.1349T>C/p.I450T	rs549790164	0.0001	D	B	N	T	D	M
FANCD2	NM_033084	c.1372T>C/p.Y458H	rs777142423	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.1373A>G/p.Y458C	rs535519170	0.0001	D	B	D	T	D	M
FANCD2	NM_033084	c.1402T>C/p.Y468H	rs753651489	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.1478T>C/p.L493S	rs762760914	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.1564G>C/p.D522H	rs777340649	0.0001	T	D	D	T	D	M
FANCD2	NM_033084	c.1657G>A/p.D553N	rs745498971	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.1993G>A/p.V665I	rs774405864	0.0001	D	D	N	T	D	M
FANCD2	NM_033084	c.2168+4A>C	rs768088140	0.0001	.	.	.	.	.	.
FANCD2	NM_033084	c.2270-3_2270-2CAdel	rs769541872	0.0001	.	.	.	.	.	.
FANCD2	NM_033084	c.2376G>C/p.W792C	rs752013429	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.2380C>T/p.R794X	rs755350165	0.0001	.	.	.	.	A	.
FANCD2	NM_033084	c.2776C>T/p.R926X	rs748180733	0.0001	.	.	.	.	A	.
FANCD2	NM_033084	c.2851C>T/p.H951Y	rs766168539	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.2938C>G/p.L980V	rs750865745	0.0001	D	P	N	T	D	M

FANCD2	NM_033084	c.3464T>A/p.II155N	rs537921299	0.0001	D	P	D	T	D	M
FANCD2	NM_033084	c.3689C>T/p.T1230I	rs773540135	0.0001	D	P	D	T	D	M
FANCD2	NM_033084	c.3692T>C/p.F1231S	rs762915519	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.3713T>A/p.M1238K	rs761089162	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.3818G>A/p.R1273Q	rs772180708	0.0001	D	D	N	T	D	M
FANCD2	NM_033084	c.3847A>C/p.K1283Q	rs777057249	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.3848A>G/p.K1283R	rs762148969	0.0001	D	D	N	T	D	M
FANCD2	NM_033084	c.4027G>A/p.G1343R	rs759686612	0.0001	D	D	D	T	D	M
FANCD2	NM_033084	c.4100T>G/p.L1367X	rs765840374	0.0001	.	.	.	.	D	.
FANCD2	NM_033084	c.4189G>A/p.E1397K	rs753272541	0.0001	D	P	D	T	D	M
FANCD2	NM_033084	c.4319G>A/p.G1440D	rs142378663	0.0001	D	P	N	T	D	N
FANCD2	NM_033084	c.704T>C/p.L235P	rs760574880	0.0002	D	D	D	T	D	M
FANCD2	NM_033084	c.2777G>A/p.R926Q	rs532250395	0.0002	D	D	D	T	D	M
FANCD2	NM_033084	c.3047T>A/p.V1016D	rs767860064	0.0002	D	P	D	T	N	M
FANCD2	NM_033084	c.3814G>C/p.V1272L	rs779166407	0.0002	D	D	N	T	D	M
FANCD2	NM_033084	c.3896G>A/p.R1299H	rs781701459	0.0002	T	B	D	T	D	M
FANCD2	NM_033084	c.3959A>G/p.H1320R	rs746501818	0.0002	D	P	D	T	D	M
FANCD2	NM_033084	c.3973C>A/p.L1325M	rs555539811	0.0002	T	D	N	T	D	M
FANCD2	NM_033084	c.1717A>G/p.I573V	rs766529679	0.0003	T	P	N	T	D	M
FANCD2	NM_033084	c.3419T>G/p.V1140G	rs781064333	0.0003	T	B	D	T	D	M
FANCD2	NM_033084	c.2053G>A/p.G685R	rs190777319	0.0005	D	P	D	T	N	M
FANCD2	NM_033084	c.144T>A/p.F48L	rs750534583	0.0006	D	D	N	T	D	M
FANCD2	NM_033084	c.2372A>G/p.N791S	rs758718558	0.0009	D	D	D	T	D	M
FANCD2	NM_033084	c.1766+3A>G	rs758140679	0.001	.	.	.	.	.	.
FANCD2	NM_033084	c.2480A>C/p.E827A	rs145099733	0.0012	T	P	D	T	D	M
FANCD2	NM_033084	c.4230_4235del/p.1410_1412del	rs766605179	0.0016	.	.	.	.	.	.

FANCD2	NM_033084	c.195G>C/p.Q65H	rs36084488	0.0031	D	D	D	T	N	M
FANCG	NM_004629	c.1642C>T/p.R548X	rs779834525	0.0001	.	.	.	.	A	.
FANCG	NM_004629	c.1199C>T/p.A400V	rs773936542	0.0001	D	B	D	T	D	M
FANCG	NM_004629	c.1087G>A/p.A363T	rs768324970	0.0001	D	D	D	T	D	M
FANCG	NM_004629	c.515delG/p.G172fs	rs759475242	0.0001	.	.	.	.	.	.
FANCG	NM_004629	c.560C>A/p.P187Q	rs781721901	0.0002	T	D	D	T	D	M
FANCG	NM_004629	c.1589_1591del/p.530_531del	rs767443643	0.0006	.	.	.	.	.	.
FANCG	NM_004629	c.307+1G>C	rs200479612	0.0007	.	.	.	.	D	.
FANCG	NM_004629	c.420C>A/p.H140Q	rs764566651	0.0009	D	D	D	T	D	M
FANCG	NM_004629	c.511-3dupC	rs376732298	0.001	.	.	.	.	.	.
FANCG	NM_004629	c.1768C>G/p.P590A	rs541868979	0.0013	D	D	D	T	D	L
FANCG	NM_004629	c.881G>A/p.G294E	rs17880082	0.002	T	B	D	T	D	M
