

ORIGINAL RESEARCH ARTICLE

Next-generation sequencing and bioinformatics analysis in breast cancer research: Insights from Western Kazakhstan

**Supplementary File**

Table S1. Primary indicators of genotyping results

SNP	Group	n	Typed p	Minor	MAF	A1	A2	A1 ct	A2 ct	A1 p	A2 p	Hom1	Het	Hom2	Hom1 ct	Het ct	Hom2 ct	Hom1 p	Het p	Hom2 p	HWE p
Rs616488	BC	149	1	G	0.265	A	G	219	79	0.735	0.265	A/A	A/G	G/G	82	55	12	0.55	0.369	0.081	0.633914
Rs616488	Control	150	1	G	0.27	A	G	219	81	0.73	0.27	A/A	A/G	G/G	80	59	11	0.533	0.393	0.073	0.882122
Rs33927012	BC	149	1	G	0.007	A	G	296	2	0.993	0.007	A/A	A/G	A/G	147	2		0.987	0.013		0
Rs33927012	Control	150	1	A	1	A	A	300		1		A/A			150			1			1
Rs11203289	BC	149	1	C	0.134	G	C	258	40	0.866	0.134	G/G	G/C	G/C	109	40		0.732	0.268		0.113484
Rs11203289	Control	150	1	C	0.207	G	C	238	62	0.793	0.207	G/G	G/C	G/C	88	62		0.587	0.413		0.002855
Rs67376798	BC	149	0.993	A	0.007	T	A	294	2	0.993	0.007	T/T	A/T	A/T	146	2		0.986	0.014		0
Rs67376798	Control	150	1	A	0.003	T	A	299	1	0.997	0.003	T/T	A/T	A/T	149	1		0.993	0.007		0
Rs3918290	BC	149	1	T	0.134	C	T	258	40	0.866	0.134	C/C	C/T	C/T	109	40		0.732	0.268		0.113484
Rs3918290	Control	150	1	T	0.207	C	T	238	62	0.793	0.207	C/C	C/T	C/T	88	62		0.587	0.413		0.002855
Rs55886062	BC	149	0.993	C	0.135	A	C	256	40	0.865	0.135	A/A	A/C	A/C	108	40		0.73	0.27		0.111375
Rs55886062	Control	150	1	C	0.207	A	C	238	62	0.793	0.207	A/A	A/C	A/C	88	62		0.587	0.413		0.002855
Rs11249433	BC	149	1	G	0.208	A	G	236	62	0.792	0.208	A/A	A/G	G/G	93	50	6	0.624	0.336	0.04	0.951709
Rs11249433	Control	150	1	G	0.173	A	G	248	52	0.827	0.173	A/A	A/G	G/G	103	42	5	0.687	0.28	0.033	0.940774
Rs6678914	BC	149	1	A	0.238	A	G	71	227	0.238	0.762	G/G	A/G	A/A	85	57	7	0.57	0.383	0.047	0.633704
Rs6678914	Control	150	0.993	A	0.218	A	G	65	233	0.218	0.782	G/G	A/G	A/A	89	55	5	0.597	0.369	0.034	0.420106
Rs438034	BC	149	0.987	A	0.259	G	A	218	76	0.741	0.259	G/G	A/G	A/A	80	58	9	0.544	0.395	0.061	0.851101
Rs438034	Control	150	1	A	0.237	A	G	71	229	0.237	0.763	G/G	A/G	A/A	90	49	11	0.6	0.327	0.073	0.321841
Rs10824792	BC	149	1	C	0.362	C	T	108	190	0.362	0.638	T/T	C/T	C/C	61	68	20	0.409	0.456	0.134	0.962521
Rs10824792	Control	150	1	C	0.31	T	C	207	93	0.69	0.31	T/T	C/T	C/C	70	67	13	0.467	0.447	0.087	0.694361
Rs199476086	BC	149	0.987	A	0.099	A	C	29	265	0.099	0.901	C/C	A/C	A/C	118	29		0.803	0.197		0.363583
Rs199476086	Control	150	0.973	A	0.199	C	A	234	58	0.801	0.199	C/C	A/C	A/C	88	58		0.603	0.397		0.005486
Rs12248560	BC	149	0.933	T	0.079	C	T	256	22	0.921	0.079	C/C	C/T	C/T	117	22		0.842	0.158		0.62793
Rs12248560	Control	150	0.967	T	0.079	C	T	267	23	0.921	0.079	C/C	C/T	C/T	122	23		0.841	0.159		0.603096
Rs4244285	BC	149	0.993	A	0.182	A	G	54	242	0.182	0.818	G/G	A/G	A/A	99	44	5	0.669	0.297	0.034	0.83874
Rs4244285	Control	150	1	A	0.173	A	G	52	248	0.173	0.827	G/G	A/G	A/A	102	44	4	0.68	0.293	0.027	0.937541
Rs12762549	BC	149	1	C	0.44	G	C	167	131	0.56	0.44	G/G	C/G	C/C	43	81	25	0.289	0.544	0.168	0.255537
Rs12762549	Control	150	1	G	0.487	G	C	146	154	0.487	0.513	C/C	C/G	G/G	40	74	36	0.267	0.493	0.24	0.958559
Rs7895676	BC	149	0.96	C	0.182	T	C	234	52	0.818	0.182	T/T	T/C	T/C	91	52		0.636	0.364		0.015564
Rs7895676	Control	150	0.98	C	0.245	T	C	222	72	0.755	0.245	T/T	T/C	T/C	75	72		0.51	0.49		0.000176
Rs2981578	BC	149	0.96	T	0.455	C	T	156	130	0.545	0.455	C/C	C/T	T/T	49	58	36	0.343	0.406	0.252	0.040304
Rs2981578	Control	150	0.96	T	0.427	T	C	123	165	0.427	0.573	C/C	C/T	T/T	57	51	36	0.396	0.354	0.25	0.001458

(Cont'd...)

Table S1. (Continued)

SNP	Group	n	Typed p	Minor	MAF	A1	A2	A1 ct	A2 ct	A1 p	A2 p	Hom1	Het	Hom2	Hom1 ct	Het ct	Hom2 ct	Hom1 p	Het p	Hom2 p	HWE p
Rs1219648	BC	149	0.993	G	0.422	A	G	171	125	0.578	0.422	A/A	A/G	G/G	52	67	29	0.351	0.453	0.196	0.452047
Rs1219648	Control	150	1	G	0.347	A	G	196	104	0.653	0.347	A/A	A/G	G/G	63	70	17	0.42	0.467	0.113	0.8142
Rs2981582	BC	149	0.946	G	0.44	A	G	158	124	0.56	0.44	A/A	A/G	G/G	27	104	10	0.191	0.738	0.071	0
Rs2981582	Control	150	0.92	A	0.254	G	A	206	70	0.746	0.254	G/G	A/G	A/A	81	44	13	0.587	0.319	0.094	0.094374
Rs3135718	BC	149	1	C	0.406	T	C	177	121	0.594	0.406	T/T	T/C	C/C	54	69	26	0.362	0.463	0.174	0.718155
Rs3135718	Control	150	1	C	0.343	T	C	197	103	0.657	0.343	T/T	T/C	C/C	64	69	17	0.427	0.46	0.113	0.907856
Rs3817198	BC	149	1	C	0.245	T	C	225	73	0.755	0.245	T/T	C/T	C/C	89	47	13	0.597	0.315	0.087	0.10564
Rs3817198	Control	150	1	C	0.213	T	C	236	64	0.787	0.213	T/T	C/T	C/C	96	44	10	0.64	0.293	0.067	0.17937
Rs3218707	BC	149	1	G	1	G	298	298	1	1	G/G	G/G		149			1			1	1
Rs3218707	Control	150	1	G	1	G	300	300	1	1	G/G	G/G		150			1			1	1
Rs2227924	BC	149	0.993	G	0.135	C	G	256	40	0.865	0.135	C/C	C/G	C/G	108	40		0.73	0.27		0.111375
Rs2227924	Control	150	1	G	0.207	C	G	238	62	0.793	0.207	C/C	C/G	C/G	88	62		0.587	0.413		0.002855
Rs4986761	BC	149	1	T	1	T	298	298	1	1	T/T	T/T		149			1			1	1
Rs4986761	Control	150	0.993	T	1	T	298	298	1	1	T/T	T/T		149			1			1	1
Rs3218695	BC	149	0.993	C	1	C	296	296	1	1	C/C	C/C		148			1			1	1
Rs3218695	Control	150	1	C	1	C	300	300	1	1	C/C	C/C		150			1			1	1
Rs1800056	BC	149	1	T	1	T	298	298	1	1	T/T	T/T		149			1			1	1
Rs1800056	Control	150	1	C	0.003	T	C	299	1	0.997	0.003	T/T	C/T	C/T	149	1		0.993	0.007		0
Rs1800057	BC	149	0.993	G	0.135	C	G	256	40	0.865	0.135	C/C	C/G	C/G	108	40		0.73	0.27		0.111375
Rs1800057	Control	150	1	G	0.207	C	G	238	62	0.793	0.207	C/C	C/G	C/G	88	62		0.587	0.413		0.002855
Rs3092856	BC	149	0.987	T	0.136	C	T	254	40	0.864	0.136	C/C	C/T	C/T	107	40		0.728	0.272		0.109272
Rs3092856	Control	150	0.993	T	0.208	C	T	236	62	0.792	0.208	C/C	C/T	C/T	87	62		0.584	0.416		0.002702
Rs1800058	BC	149	0.96	T	0.164	C	T	239	47	0.836	0.164	C/C	C/T	T/T	97	45	1	0.678	0.315	0.007	0.138447
Rs1800058	Control	150	0.887	T	0.274	C	T	193	73	0.726	0.274	C/C	C/T	T/T	63	67	3	0.474	0.504	0.023	0.003955
Rs121908984	BC	149	1	C	1	C	298	298	1	1	C/C	C/C		149			1			1	1
Rs121908984	Control	150	1	C	1	C	300	300	1	1	C/C	C/C		150			1			1	1
Rs11045585	BC	149	1	G	0.201	G	A	60	238	0.201	0.799	A/A	A/G	G/G	93	52	4	0.624	0.349	0.027	0.407779
Rs11045585	Control	150	1	G	0.16	A	G	252	48	0.84	0.16	A/A	A/G	G/G	105	42	3	0.7	0.28	0.02	0.797658
Rs2229774	BC	149	0.987	A	0.364	G	A	187	107	0.636	0.364	G/G	A/G	A/G	40	107		0.272	0.728		0
Rs2229774	Control	150	1	A	0.067	G	A	280	20	0.933	0.067	G/G	A/G	A/A	131	18	1	0.873	0.12	0.007	0.835035
Rs766173	BC	149	0.993	C	0.108	A	C	264	32	0.892	0.108	A/A	A/C	C/C	117	30	1	0.791	0.203	0.007	0.801487
Rs766173	Control	150	0.993	C	0.121	A	C	262	36	0.879	0.121	A/A	A/C	C/C	116	30	3	0.779	0.201	0.02	0.762276

(Cont'd...)

Table S1. (Continued)

SNP	Group	n	Typed p	Minor	MAF	A1	A2	A1 ct	A2 ct	A1 p	A2 p	Hom1	Het	Hom2	Hom1 ct	Het ct	Hom2 ct	Hom1 p	Het p	Hom2 p	HWE p
Rs144848	BC	149	1	C	0.228	A	C	230	68	0.772	0.228	A/A	A/C	C/C	93	44	12	0.624	0.295	0.081	0.074704
Rs144848	Control	150	1	C	0.23	A	C	231	69	0.77	0.23	A/A	A/C	C/C	86	59	5	0.573	0.393	0.033	0.244118
Rs4987117	BC	149	1	T	0.134	C	T	258	40	0.866	0.134	C/C	C/T	C/G	109	40		0.732	0.268		0.113484
Rs4987117	Control	150	1	T	0.213	C	T	236	64	0.787	0.213	C/C	C/T	C/G	86	64		0.573	0.427		0.001812
Rs80359550	BC	149	0.993	T	0.119	*	T	296	40	0.881	0.119	*/*	*/T	*/T	108	40		0.73	0.27		0.111375
Rs80359550	Control	150	0.993	T	0.172	*	T	298	62	0.828	0.172	*/*	*/T	*/T	87	62		0.584	0.416		0.002702
Rs1799954	BC	149	1	T	0.134	C	T	258	40	0.866	0.134	C/C	C/T	C/G	109	40		0.732	0.268		0.113484
Rs1799954	Control	150	1	T	0.21	C	T	237	63	0.79	0.21	C/C	C/T	C/G	87	63		0.58	0.42		0.002281
Rs80359062	BC	149	1	G	0.134	C	G	258	40	0.866	0.134	C/C	C/G	C/G	109	40		0.732	0.268		0.113484
Rs80359062	Control	150	1	G	0.207	C	G	238	62	0.793	0.207	C/C	C/G	C/G	88	62		0.587	0.413		0.002855
Rs11571746	BC	149	0.993	C	0.007	T	C	294	2	0.993	0.007	T/T	C/T	C/T	146	2		0.986	0.014		0
Rs11571746	Control	150	0.993	T	1	T	T	298		1		T/T			149			1			1
Rs11571747	BC	149	1	C	0.134	A	C	258	40	0.866	0.134	A/A	A/C	A/C	109	40		0.732	0.268		0.113484
Rs11571747	Control	150	1	C	0.207	A	C	238	62	0.793	0.207	A/A	A/C	A/C	88	62		0.587	0.413		0.002855
Rs4987047	BC	149	1	A	1	A	A	298		1		A/A			149			1			1
Rs4987047	Control	150	1	A	1	A	A	300		1		A/A			150			1			1
Rs11571833	BC	149	0.98	T	0.14	A	T	251	41	0.86	0.14	A/A	A/T	A/T	105	41		0.719	0.281		0.094157
Rs11571833	Control	150	1	T	0.207	A	T	238	62	0.793	0.207	A/A	A/T	A/T	88	62		0.587	0.413		0.002855
Rs1801426	BC	149	1	G	0.037	A	G	287	11	0.963	0.037	A/A	A/G	A/G	138	11		0.926	0.074		0.50911
Rs1801426	Control	150	0.993	G	0.047	A	G	284	14	0.953	0.047	A/A	A/G	A/G	135	14		0.906	0.094		0.762728
Rs3784099	BC	149	0.993	A	0.23	A	G	68	228	0.23	0.77	G/G	A/G	A/A	90	48	10	0.608	0.324	0.068	0.407877
Rs3784099	Control	150	0.993	A	0.218	G	A	233	65	0.782	0.218	G/G	A/G	A/A	90	53	6	0.604	0.356	0.04	0.742287
Rs121434592	BC	149	0.987	T	0.051	C	T	279	15	0.949	0.051	C/C	T/C	T/C	132	15		0.898	0.102		0.83947
Rs121434592	Control	150	0.987	T	0.037	C	T	285	11	0.963	0.037	C/C	T/C	T/C	137	11		0.926	0.074		0.512502
Rs4778137	BC	149	1	C	0.416	G	C	174	124	0.584	0.416	G/G	C/G	C/C	50	74	25	0.336	0.497	0.168	0.882503
Rs4778137	Control	150	0.987	C	0.449	C	G	133	163	0.449	0.551	G/G	C/G	C/C	40	83	25	0.27	0.561	0.169	0.13445
Rs121917739	BC	149	0.98	A	0.003	G	A	291	1	0.997	0.003	G/G	A/G	A/G	145	1		0.993	0.007		0
Rs121917739	Control	150	1	G	1	G	G	300		1		G/G			150			1			1
Rs4646	BC	149	1	A	0.383	A	C	114	184	0.383	0.617	C/C	A/C	A/A	58	68	23	0.389	0.456	0.154	0.775503
Rs4646	Control	150	1	A	0.36	C	A	192	108	0.64	0.36	C/C	A/C	A/A	57	78	15	0.38	0.52	0.1	0.1505
Rs2290203	BC	149	1	A	0.493	G	A	151	147	0.507	0.493	G/G	A/G	A/A	37	77	35	0.248	0.517	0.235	0.77039
Rs2290203	Control	150	1	A	0.46	A	G	138	162	0.46	0.54	G/G	A/G	A/A	45	72	33	0.3	0.48	0.22	0.769118

(Cont'd...)

Table S1. (Continued)

SNP	Group	n	Typed p	Minor	MAF	A1	A2	A1 ct	A2 ct	A1 p	A2 p	Hom1	Het	Hom2	Hom1 ct	Het ct	Hom2 ct	Hom1 p	Het p	Hom2 p	HWE p
Rs3803662	BC	149	0.993	A	0.486	A	G	144	152	0.486	0.514	G/G	A/G	A/A	37	78	33	0.25	0.527	0.223	0.585682
Rs3803662	Control	150	0.993	G	0.497	A	G	150	148	0.503	0.497	A/A	A/G	G/G	35	80	34	0.235	0.537	0.228	0.435432
Rs12922061	BC	149	1	T	0.248	C	T	224	74	0.752	0.248	C/C	C/T	T/T	85	54	10	0.57	0.362	0.067	0.852697
Rs12922061	Control	150	1	T	0.23	C	T	231	69	0.77	0.23	C/C	C/T	T/T	87	57	6	0.58	0.38	0.04	0.481076
Rs1800566	BC	149	0.993	A	0.355	A	G	105	191	0.355	0.645	G/G	A/G	A/A	59	73	16	0.399	0.493	0.108	0.420906
Rs1800566	Control	150	1	A	0.393	A	G	118	182	0.393	0.607	G/G	A/G	A/A	51	80	19	0.34	0.533	0.127	0.190251
Rs9934948	BC	149	0.993	T	0.372	T	C	110	186	0.372	0.628	C/C	C/T	T/T	56	74	18	0.378	0.5	0.122	0.468433
Rs9934948	Control	150	0.993	T	0.406	C	T	177	121	0.594	0.406	C/C	C/T	T/T	49	79	21	0.329	0.53	0.141	0.27877
Rs28934577	BC	149	0.993	T	0.135	A	T	256	40	0.865	0.135	A/A	A/T	A/T	108	40		0.73	0.27		0.111375
Rs28934577	Control	150	1	T	0.207	A	T	238	62	0.793	0.207	A/A	A/T	A/T	88	62		0.587	0.413		0.002855
Rs11540652	BC	149	1	C	1	C		298		1		C/C			149			1			1
Rs11540652	Control	150	1	C	1	C		300		1		C/C			150			1			1
Rs28934578	BC	149	0.993	T	0.135	C	T	256	40	0.865	0.135	C/C	C/T	C/T	108	40		0.73	0.27		0.111375
Rs28934578	Control	150	1	T	0.207	C	T	238	62	0.793	0.207	C/C	C/T	C/T	88	62		0.587	0.413		0.002855
Rs28934874	BC	149	1	T	0.134	G	T	258	40	0.866	0.134	G/G	G/T	G/T	109	40		0.732	0.268		0.113484
Rs28934874	Control	150	1	T	0.207	G	T	238	62	0.793	0.207	G/G	G/T	G/T	88	62		0.587	0.413		0.002855
Rs121912658	BC	149	0.993	T	1	T		296		1		T/T			148			1			1
Rs121912658	Control	150	1	T	1	T		300		1		T/T			150			1			1
Rs1042522	BC	149	1	G	0.305	C	G	207	91	0.695	0.305	C/C	C/G	G/G	68	71	10	0.456	0.477	0.067	0.176143
Rs1042522	Control	150	1	G	0.337	C	G	199	101	0.663	0.337	C/C	C/G	G/G	65	69	16	0.433	0.46	0.107	0.819025
Rs1799966	BC	149	0.98	C	0.288	C	T	84	208	0.288	0.712	T/T	C/T	C/C	69	70	7	0.473	0.479	0.048	0.058403
Rs1799966	Control	150	1	C	0.333	T	C	200	100	0.667	0.333	T/T	C/T	C/C	63	74	13	0.42	0.493	0.087	0.228127
Rs62625308	BC	149	1	A	0.134	G	A	258	40	0.866	0.134	G/G	G/A	G/A	109	40		0.732	0.268		0.113484
Rs62625308	Control	150	1	A	0.207	G	A	238	62	0.793	0.207	G/G	G/A	G/A	88	62		0.587	0.413		0.002855
Rs16942	BC	149	0.946	C	0.294	C	T	83	199	0.294	0.706	T/T	C/T	C/C	62	75	4	0.44	0.532	0.028	0.001522
Rs16942	Control	150	0.92	C	0.341	T	C	182	94	0.659	0.341	T/T	C/T	C/T	44	94		0.319	0.681	0	
Rs2227945	BC	149	0.993	T	1	T		296		1		T/T			148			1			1
Rs2227945	Control	150	1	T	1	T		300		1		T/T			150			1			1
Rs4986850	BC	149	0.987	T	0.034	C	T	284	10	0.966	0.034	C/C	C/T	C/T	137	10		0.932	0.068		0.422444
Rs4986850	Control	150	1	T	0.023	C	T	293	7	0.977	0.023	C/C	C/T	C/T	143	7		0.953	0.047		0.141581
Rs1799950	BC	149	0.96	C	0.049	C	T	14	272	0.049	0.951	T/T	C/T	C/T	129	14		0.902	0.098		0.784163
Rs1799950	Control	150	1	C	0.013	C	T	4	296	0.013	0.987	T/T	C/T	C/T	146	4		0.973	0.027		0.003643
Rs80357382	BC	149	0.96	C	0.133	T	C	248	38	0.867	0.133	T/T	T/C	T/C	105	38		0.734	0.266		0.130242

(Cont'd...)

Table S1. (Continued)

SNP	Group	n	Typed p	Minor	MAF	A1	A2	A1 ct	A2 ct	A1 p	A2 p	Hom1	Het	Hom2	Hom1 ct	Het ct	Hom2 ct	Hom1 p	Het p	Hom2 p	HWE p
Rs80357382	Control	150	1	C	0.207	T	C	238	62	0.793	0.207	T/T	T/C		88	62		0.587	0.413		0.002855
Rs80357064	BC	149	1	A	1	A	A	298		1	A/A	A/A			149			1			1
Rs80357064	Control	150	0.993	A	1	A	A	298		1	A/A	A/A			149			1			1
Rs6504950	BC	149	0.993	A	0.155	G	A	250	46	0.845	0.155	G/G	A/G	A/A	106	38	4	0.716	0.257	0.027	0.944907
Rs6504950	Control	150	0.993	A	0.154	A	G	46	252	0.154	0.846	G/G	A/G	A/A	106	40	3	0.711	0.268	0.02	0.920294
Rs137852985	BC	149	0.866	T	0.391	C	T	157	101	0.609	0.391	C/C	T/C	T/T	33	91	5	0.256	0.705	0.039	0
Rs137852985	Control	150	0.973	T	0.045	C	T	279	13	0.955	0.045	C/C	T/C	T/T	136	7	3	0.932	0.048	0.021	0.000014
Rs80357540	BC	149	0.993	-	0.135	AG	-	256	40	0.865	0.135	AG/AG	AG/-		108	40		0.73	0.27		0.111375
Rs80357540	Control	150	1	-	0.207	AG	-	238	62	0.793	0.207	AG/AG	AG/-		88	62		0.587	0.413		0.002855
Rs80357914	BC	149	0.973	-	0.152	CT	-	246	44	0.848	0.152	CT/CT	CT/-		101	44		0.697	0.303		0.060929
Rs80357914	Control	150	1	-	0.207	CT	-	238	62	0.793	0.207	CT/CT	CT/-		88	62		0.587	0.413		0.002855
Rs80357629	BC	149	1	T	0.126	*	T	298	43	0.874	0.126	*/*	*/*		106	43		0.711	0.289		0.076889
Rs80357629	Control	150	0.98	T	0.174	*	T	294	62	0.826	0.174	*/*	*/*		85	62		0.578	0.422		0.002412
Rs80357780	BC	149	1	-	0.134	CT	-	258	40	0.866	0.134	CT/CT	CT/-		109	40		0.732	0.268		0.113484
Rs80357780	Control	150	1	-	0.207	CT	-	238	62	0.793	0.207	CT/CT	CT/-		88	62		0.587	0.413		0.002855
Rs80357906	BC	149	1	G	0.185	-	G	243	55	0.815	0.185	-/-	-/G		94	55		0.631	0.369		0.01133
Rs80357906	Control	150	1	G	0.243	-	G	227	73	0.757	0.243	-/-	-/G		77	73		0.513	0.487		0.000171
Rs1787991	BC	149	0.745	T	0.167	G	T	185	37	0.833	0.167	G/G	G/T	T/T	75	35	1	0.676	0.315	0.009	0.257598
Rs1787991	Control	150	0.927	T	0.234	G	T	213	65	0.766	0.234	G/G	G/T		74	65		0.532	0.468		0.000664
Rs34945627	BC	149	0.98	T	0.134	C	T	253	39	0.866	0.134	C/C	C/T		107	39		0.733	0.267		0.121564
Rs34945627	Control	150	0.987	T	0.206	C	T	235	61	0.794	0.206	C/C	C/T		87	61		0.588	0.412		0.003195
Rs757229	BC	149	0.987	G	0.408	G	C	120	174	0.408	0.592	C/C	G/C	G/G	51	72	24	0.347	0.49	0.163	0.954574
Rs757229	Control	150	1	C	0.47	C	G	141	159	0.47	0.53	G/G	G/C	C/C	61	37	52	0.407	0.247	0.347	0
Rs713041	BC	149	1	T	0.376	C	T	186	112	0.624	0.376	C/C	C/T	T/T	59	68	22	0.396	0.456	0.148	0.838448
Rs713041	Control	150	1	T	0.393	C	T	182	118	0.607	0.393	C/C	C/T	T/T	57	68	25	0.38	0.453	0.167	0.627498
Rs12721655	BC	149	0.98	G	0.137	A	G	252	40	0.863	0.137	A/A	A/G		106	40		0.726	0.274		0.107176
Rs12721655	Control	150	1	G	0.207	A	G	238	62	0.793	0.207	A/A	A/G		88	62		0.587	0.413		0.002855
Rs1800470	BC	149	0.973	C	0.438	T	C	163	127	0.562	0.438	T/T	T/C	C/C	50	63	32	0.345	0.434	0.221	0.19788
Rs1800470	Control	150	0.993	C	0.436	C	T	130	168	0.436	0.564	T/T	T/C	C/C	43	82	24	0.289	0.55	0.161	0.184844
Rs1045485	BC	149	1	C	0.037	G	C	287	11	0.963	0.037	G/G	C/G	C/C	139	9	1	0.933	0.06	0.007	0.459124
Rs1045485	Control	150	0.993	C	0.044	G	C	285	13	0.956	0.044	G/G	C/G		136	13		0.913	0.087		0.683764
Rs139785364	BC	149	1	G	1	G	G	298		1	G/G	G/G			149			1			1
Rs139785364	Control	150	1	G	1	G	G	300		1	G/G	G/G			150			1			1

(Cont'd...)

Table S1. (Continued)

SNP	Group	n	Typed p	Minor	MAF	A1	A2	A1 ct	A2 ct	A1 p	A2 p	Hom1	Het	Hom2	Hom1 ct	Het ct	Hom2 ct	Hom1 p	Het p	Hom2 p	HWE p
Rs13389423	BC	149	0.993	A	0.047	G	A	282	14	0.953	0.047	G/G	A/G		134	14		0.905	0.095		0.766263
Rs13389423	Control	150	1	A	0.033	G	A	290	10	0.967	0.033	G/G	A/G		140	10		0.933	0.067		0.412936
Rs111367604	BC	149	1	C	1	C	C	298		1		C/C			149			1			1
Rs111367604	Control	150	1	C	1	C	C	300		1		C/C			150			1			1
Rs2228455	BC	149	1	C	0.134	T	C	258	40	0.866	0.134	T/T	T/C		109	40		0.732	0.268		0.113484
Rs2228455	Control	150	1	C	0.207	T	C	238	62	0.793	0.207	T/T	T/C		88	62		0.587	0.413		0.002855
Rs13387042	BC	149	0.98	A	0.315	A	G	92	200	0.315	0.685	G/G	A/G	A/A	71	58	17	0.486	0.397	0.116	0.416558
Rs13387042	Control	150	1	A	0.273	A	G	82	218	0.273	0.727	G/G	A/G	A/A	81	56	13	0.54	0.373	0.087	0.565499
Rs17863783	BC	149	0.993	T	0.047	G	T	282	14	0.953	0.047	G/G	G/T	T/T	135	12	1	0.912	0.081	0.007	0.709252
Rs17863783	Control	150	1	T	0.04	G	T	288	12	0.96	0.04	G/G	G/T		138	12		0.92	0.08		0.595269
Rs3918242	BC	149	0.966	C	0.188	T	C	234	54	0.812	0.188	T/T	T/C		90	54		0.625	0.375		0.011143
Rs3918242	Control	150	0.967	C	0.248	T	C	218	72	0.752	0.248	T/T	T/C		73	72		0.503	0.497		0.000147
Rs8133052	BC	149	0.993	G	0.446	A	G	164	132	0.554	0.446	A/A	A/G	G/G	46	72	30	0.311	0.486	0.203	0.939443
Rs8133052	Control	150	1	G	0.493	A	G	152	148	0.507	0.493	A/A	A/G	G/G	32	88	30	0.213	0.587	0.2	0.045139
Rs17879961	BC	149	0.987	G	0.017	A	G	289	5	0.983	0.017	A/A	G/A	G/G	144	1	2	0.98	0.007	0.014	0
Rs17879961	Control	150	0.98	G	0.003	A	G	293	1	0.997	0.003	A/A	G/A		146	1		0.993	0.007		0
Rs6001930	BC	149	0.993	C	0.294	C	T	87	209	0.294	0.706	T/T	C/T	C/C	72	65	11	0.486	0.439	0.074	0.580665
Rs6001930	Control	150	0.993	C	0.349	C	T	104	194	0.349	0.651	T/T	C/T	C/C	63	68	18	0.423	0.456	0.121	0.922657
Rs3892097	BC	149	0.987	T	0.075	C	T	272	22	0.925	0.075	C/C	C/T	T/T	127	18	2	0.864	0.122	0.014	0.393184
Rs3892097	Control	150	0.993	T	0.057	C	T	281	17	0.943	0.057	C/C	C/T		132	17		0.886	0.114		0.905011
Rs1065852	BC	149	0.993	A	0.24	A	G	71	225	0.24	0.76	G/G	A/G	A/A	94	37	17	0.635	0.25	0.115	0.000271
Rs1065852	Control	150	0.993	A	0.279	A	G	83	215	0.279	0.721	G/G	A/G	A/A	89	37	23	0.597	0.248	0.154	0.000007
Rs4973768	BC	149	1	T	0.389	C	T	182	116	0.611	0.389	C/C	C/T	T/T	55	72	22	0.369	0.483	0.148	0.936163
Rs4973768	Control	150	1	T	0.377	C	T	187	113	0.623	0.377	C/C	C/T	T/T	57	73	20	0.38	0.487	0.133	0.752267
Rs4415084	BC	149	1	C	0.48	C	T	143	155	0.48	0.52	T/T	C/T	C/C	24	107	18	0.161	0.718	0.121	0
Rs4415084	Control	150	1	C	0.467	T	C	160	140	0.533	0.467	T/T	C/T	C/C	32	96	22	0.213	0.64	0.147	0.000735
Rs889312	BC	149	0.993	A	0.47	A	C	139	157	0.47	0.53	C/C	A/C	A/A	37	83	28	0.25	0.561	0.189	0.159447
Rs889312	Control	150	1	C	0.42	A	C	174	126	0.58	0.42	A/A	A/C	C/C	44	86	20	0.293	0.573	0.133	0.041458
Rs351855	BC	149	0.987	A	0.388	A	G	114	180	0.388	0.612	G/G	A/G	A/A	52	76	19	0.354	0.517	0.129	0.344025
Rs351855	Control	150	1	A	0.333	A	G	100	200	0.333	0.667	G/G	A/G	A/A	62	76	12	0.413	0.507	0.08	0.115854
Rs1143684	BC	149	0.987	C	0.184	T	C	240	54	0.816	0.184	T/T	C/T	C/C	96	48	3	0.653	0.327	0.02	0.397404
Rs1143684	Control	150	0.993	C	0.215	T	C	234	64	0.785	0.215	T/T	C/T	C/C	91	52	6	0.611	0.349	0.04	0.818701
Rs17530068	BC	149	1	C	0.195	T	C	240	58	0.805	0.195	T/T	C/T	C/C	94	52	3	0.631	0.349	0.02	0.244736

(Cont'd...)

Table S1. (Continued)

SNP	Group	n	Typed p	Minor	MAF	A1	A2	A1 ct	A2 ct	A1 p	A2 p	Hom1	Het	Hom2	Hom1 ct	Het ct	Hom2 ct	Hom1 p	Het p	Hom2 p	HWE p
Rsl7530068	Control	150	1	C	0.2	C	T	60	240	0.2	0.8	T/T	C/T	C/C	95	50	5	0.633	0.333	0.033	0.762725
Rsl2210538	BC	149	1	G	0.094	A	G	270	28	0.906	0.094	A/A	A/G	G/G	122	26	1	0.819	0.174	0.007	0.869844
Rsl2210538	Control	150	1	G	0.103	A	G	269	31	0.897	0.103	A/A	A/G	G/G	121	27	2	0.807	0.18	0.013	0.921523
Rsl714368	BC	149	0.987	C	0.313	T	C	202	92	0.687	0.313	T/T	C/T	C/C	70	62	15	0.476	0.422	0.102	0.924724
Rsl714368	Control	150	0.987	C	0.355	T	C	191	105	0.645	0.355	T/T	C/T	C/C	59	73	16	0.399	0.493	0.108	0.420906
Rsl2046210	BC	149	1	A	0.315	G	A	204	94	0.685	0.315	G/G	A/G	A/A	72	60	17	0.483	0.403	0.114	0.497853
Rsl2046210	Control	150	0.993	A	0.289	G	A	212	86	0.711	0.289	G/G	A/G	A/A	74	64	11	0.497	0.43	0.074	0.684149
Rsl3798577	BC	149	1	C	0.436	C	T	130	168	0.436	0.564	T/T	C/T	C/C	42	84	23	0.282	0.564	0.154	0.097123
Rsl3798577	Control	150	0.993	C	0.409	C	T	122	176	0.409	0.591	T/T	C/T	C/C	53	70	26	0.356	0.47	0.174	0.823138
Rsl1045642	BC	149	1	A	0.466	G	A	159	139	0.534	0.466	G/G	A/G	A/A	46	67	36	0.309	0.45	0.242	0.290807
Rsl1045642	Control	150	1	A	0.407	G	A	178	122	0.593	0.407	G/G	A/G	A/A	53	72	25	0.353	0.48	0.167	0.939558
Rsl2032582	BC	149	0.946	A	0.408	C	A	167	115	0.592	0.408	C/C	C/A	A/A	55	57	29	0.39	0.404	0.206	0.071207
Rsl2032582	Control	150	1	A	0.423	C	A	173	127	0.577	0.423	C/C	C/A	A/A	58	57	35	0.387	0.38	0.233	0.00962
Rsl2740574	BC	149	1	C	0.013	T	C	294	4	0.987	0.013	T/T	C/T	C/T	145	4		0.973	0.027		0.00377
Rsl2740574	Control	150	1	C	0.01	T	C	297	3	0.99	0.01	T/T	C/T	C/T	147	3		0.98	0.02		0.000072
Rsl1799983	BC	149	0.98	T	0.199	G	T	234	58	0.801	0.199	G/G	G/T	T/T	94	46	6	0.644	0.315	0.041	0.911008
Rsl1799983	Control	150	1	T	0.153	G	T	254	46	0.847	0.153	G/G	G/T	T/T	108	38	4	0.72	0.253	0.027	0.941796
Rsl3218536	BC	149	0.973	T	0.162	C	T	243	47	0.838	0.162	C/C	C/T	C/T	98	47		0.676	0.324		0.038836
Rsl3218536	Control	150	1	T	0.233	C	T	230	70	0.767	0.233	C/C	C/T	C/T	80	70		0.533	0.467		0.000399
Rsl1054135	BC	149	0.725	T	0.347	T	C	75	141	0.347	0.653	C/C	C/T	T/T	51	39	18	0.472	0.361	0.167	0.051129
Rsl1054135	Control	150	0.94	T	0.379	C	T	175	107	0.621	0.379	C/C	C/T	T/T	55	65	21	0.39	0.461	0.149	0.902735
Rsl16902094	BC	149	0.987	G	0.272	A	G	214	80	0.728	0.272	A/A	A/G	G/G	77	60	10	0.524	0.408	0.068	0.835516
Rsl16902094	Control	150	1	G	0.27	A	G	219	81	0.73	0.27	A/A	A/G	G/G	81	57	12	0.54	0.38	0.08	0.779862
Rsl620861	BC	149	0.973	A	0.455	A	G	132	158	0.455	0.545	G/G	A/G	A/A	47	64	34	0.324	0.441	0.234	0.229963
Rsl620861	Control	150	1	A	0.45	A	G	135	165	0.45	0.55	G/G	A/G	A/A	47	71	32	0.313	0.473	0.213	0.678861
Rsl13281615	BC	149	1	G	0.463	A	G	160	138	0.537	0.463	A/A	A/G	G/G	42	76	31	0.282	0.51	0.208	0.84568
Rsl13281615	Control	150	1	G	0.453	A	G	164	136	0.547	0.453	A/A	A/G	G/G	46	72	32	0.307	0.48	0.213	0.790335
Rsl7853758	BC	149	1	A	0.104	G	A	267	31	0.896	0.104	G/G	A/G	A/A	119	29	1	0.799	0.195	0.007	0.869821
Rsl7853758	Control	150	1	A	0.097	A	G	29	271	0.097	0.903	G/G	A/G	A/A	122	27	1	0.813	0.18	0.007	0.918423
Rsl137852576	BC	149	0.946	A	0.379	G	A	175	107	0.621	0.379	G/G	A/G	A/A	34	107		0.241	0.759		0
Rsl137852576	Control	150	0.993	A	0.292	A	G	87	211	0.292	0.708	G/G	A/G	A/A	62	87		0.416	0.584		0.000001

Abbreviations: A1: Allele 1; A2: Allele 2; BC: Breast cancer; ct: Cycle threshold; Het: Heterozygous; Hom: Homozygous; MAF: Minor allele frequency; HWE: Hardy-Weinberg Equilibrium; p: Probability value.