SUPPLEMENTARY TABLES

Table S1 Association analysis of three *Abraxas* tagSNPs with breast cancer

TagSNP	Minor allele	MAF cases	MAF controls	P-value[a]
rs12499395	T	0.44	0.46	0.292
rs12649417	A	0.50	0.48	0.179
rs13125836	A	0.09	0.08	0.140

[a] Cochran-Armitage trend test

Table S2 LOH analysis of laser-capture microdissected tumor cell DNA of *Abraxas* c.1082G>A germline mutation carriers

Case	Tumor type	Confirmation of presence of germline *Abraxas* c.1082G>A mutation from patient's tumor by sequencing analysis	LOH status for *Abraxas*
BR-0194	Breast	Yes	Negative
B2	Breast	Yes	Negative
BR-02101	Endometrial	Yes	Negative
98-063	Breast	Yes	Negative
B10962	Fibrosarcoma	Yes	Negative
B3346	Colon	Yes	Negative

Table S3 *Abraxas* primers and PCR amplicon details

Exon	Forward primer (5´-3´)	Reverse primer (5´-3´)	Amplicon size (bp)
1	GCCCTCGTCCTCTTGTGTAG	AGGGGGAGAGAAGGCAGAG	272
2	CCCCGACTGGTAGCACATA	TTGCCCAGCCTCTGTATTTC	323
3	CTTCCTGGCGTGAGGTAAAG	CAGAGAAAGAACTGCTAGGGTTG	318
4	GGGCTTTGGTAGTTGGGTTA	GCAACCACTTTCAATTTCTGG	334
5	AAGAAAGCCATTTTAAGGTTGTT	TGATGCGACAATATATGAGAACAC	397
6	TTTTTAAATCTTGTAGGGGACAA	TCCCTTGAATTTTTATTCTGCTG	311
7	GGTTTTGTGGTTGGTTTTTCT	CATAGCCTTCATTAAGCAACTCA	382
8	TGCTTGTTACTGACATCCTCCA	CACCTTTGCACTCCAACCTA	384
9[a]	TTGTCTTAGAATACTGTGGCATATAAA	TGAGTTCCACTGGCCTATCC	1374

[a] Exon 9 has extensive similarity with other genomic contigs, predominantly with chr. 3 and 8. To avoid non-specific priming, a part of intron 8, the coding part of exon 9 and a portion of the 3' UTR have been amplified in a single fragment, and was directly sequenced. Exon 1 was also analyzed by direct sequencing.

Table S4 iPlex primers used for *Abraxas* c.1082G>A and tagSNP genotyping

Variation	PCR primer sequence*	Extension primer sequence*
c.1082G>A	F: acgttggatgCAGCTAGTACACCACAAATC R: acgttggatgGATCGTTTGTCTTGTGTATC	tgTGTCTTGTGTATCTAACAAC
rs12499395	F: acgttggatgCATAGTTGACTTAACAGCCC R: acgttggatgTCATTGGCTAGGAACAGCCC	CCCAGCTTTGGACCTAC
rs12649417	F: acgttggatgGACAAGCATCATATGGCACC R: acgttggatgCATCTTCTAAACGTTCTAC	cccTCTTCTAAACGTTCTACAGATAAT
rs13125836	F: acgttggatgGGATGCTTTATCTTGGTTAC R: acgttggatgCAAGAGATCTCGGTTGTTAG	TTGGTTACTACTACCAGTAT

F = Forward primer
R = Reverse primer
*bases in lower case letters are non-templated bases