

Supplementary Table S1: List of 143 genes included in the targeted capture massively parallel sequencing assay.

Gene symbol	Gene symbol	Gene symbol
ABCB1	ERCC4	PRKDC
ABCC1	ERCC5	PTEN
ABCC2	ERCC6	RAD21
ABCC3	ERCC8	RAD23A
ABCC5	FADD	RAD23B
ABCG2	FAF1	RAD50
ABL1	FAS	RAD51
AKT1	FAT3	RAD51B
APAF1	FEN1	RAD51C
APEX1	GABRA6	RAD51D
APEX2	GADD45A	RAD52
ATM	GANC	RAD54L
ATP7B	GATM	RB1
ATR	GEN1	RBBP8
ATXN3	GOLGA6L1	RICTOR
AURKA	HMGB1	RPA1
BAX	LIG1	RPA3
BCL2	LIG4	RPS6KA5
BCL2L1	LRRK1	RPTOR
BLM	MAP2K1	RUVBL1
BRCA1*	MAP3K1	RUVBL2
BRCA2*	MAPK1	SHFM1
BRIP1	MAPK3	SIRT1
CASP3	MAPK8	SLC31A1
CASP7	MBD4	SMUG1
CASP8	MDM2	SNAP23
CASP9	MLH1	SQRDL
CCNG1	MMS19	SSRP1
CCNH	MPG	SUPT16H
CDC25C	MRE11A	TBP
CDK1	MSH2	TOP3A
CDK12	MTOR	TOP3B
CDK7	MUS81	TP53
CDKN1A	MVP	TP53BP1
CFLAR	NBN	TP73
CHEK1	NF1	UBTF
CHEK2	NFKB1	UNG
CSMD3	NTHL1	XAB2
DCLRE1C	OGG1	XIAP
DDB1	PARP1	XPA
DDB2	PARP2	XPC
DMC1	PAXIP1	XRCC1
DUSP1	PDK1	XRCC2
EME1	PIK3CA	XRCC3
EME2	PNKP	XRCC4
ERCC1	POLD1	XRCC5
ERCC2	POLH	XRCC6
ERCC3	POLL	

*baits encompassed all exons and introns of BRCA1 and BRCA2