

**Table S4.** ClinVar pathogenic cancer predisposition.

Identifier	Chr	Start	End	Change	Zyg	Gene	OMIM diseases	Exonic Function	gnomAD exome ALL
GC030953	chr11	108312424	108312424	NM_000051:c.G5932T;p.E1978X	het	<i>ATM</i>	Ataxia-telangiectasia; Lymphoma, B-cell non-Hodgkin, somatic; Lymphoma, mantle cell, somatic; T-cell prolymphocytic leukemia, somatic; Breast cancer, susceptibility to	stopgain	4.877e-05
GC034800	chr17	43057062	43057062	NM_007297:c.5125dupC;p.Q1709fs	het	<i>BRCA1</i>	Fanconi anemia, complementation group S; Breast-ovarian cancer, familial, 1; Pancreatic cancer, susceptibility to, 4	frameshift insertion	2e-04
GC034899	chr17	43057062	43057062	NM_007297:c.5125dupC;p.Q1709fs	het	<i>BRCA1</i>	Fanconi anemia, complementation group S; Breast-ovarian cancer, familial, 1; Pancreatic cancer, susceptibility to, 4	frameshift insertion	2e-04
GC034772	chr13	32333272	32333276	NM_000059:c.1794_1798del:p.T598fs	het	<i>BRCA2</i>	Fanconi anemia, complementation group D1; Wilms tumor; Breast cancer, male, susceptibility to; Breast-ovarian cancer, familial, 2; Glioblastoma 3; Medulloblastoma; Pancreatic cancer 2; Prostate cancer	frameshift deletion	4.182e-06
GC034784	chr13	32338329	32338329	NM_000059:c.3974_3975insTGCT;p.T1325fs	het	<i>BRCA2</i>	Fanconi anemia, complementation group D1; Wilms tumor; Breast cancer, male, susceptibility to; Breast-ovarian cancer, familial, 2; Glioblastoma 3; Medulloblastoma; Pancreatic cancer 2; Prostate cancer	frameshift insertion	4.444e-06