Gene	SNPID	Variation Type	Impact	Molecular function	AFR	AMR	EAS	EUR	SAS	ClinVar
DNA2	rs10823209	SNV	MODIFIER	BER	0.5832	1	**0.0017**	1	1	Not Reported in ClinVar
DNA2	rs34922453	INDEL	MODIFIER	BER	0	**0.0021**	1	0.0961	1	Not Reported in ClinVar
DNA2	rs1801041	SNV	MODIFIER	BER	**0.0119**	0	**0.0076**	0	0	Not Reported in ClinVar
NEIL1	rs11634109	SNV	MODIFIER	BER	1	1	1	**0.0274**	1	Not Reported in ClinVar
NEIL3	rs7689099	SNV	MODERATE	BER	1	**0.0234**	1	0.0567	0.3393	Not Reported in ClinVar
NEIL3	rs13112358	SNV	MODERATE	BER	0	0	1	0	**0.0301**	Not Reported in ClinVar
NEIL3	rs13112390	SNV	MODERATE	BER	0.2706	**0.0139**	1	**0.0015**	1	Not Reported in ClinVar
TOP3A	rs6502644	SNV	MODIFIER	Homologous recombination	0	**0.003**	1	0	0.175	Not Reported in ClinVar
TOP3A	rs7207123	SNV	MODIFIER	Homologous recombination	0	**0.001**	1	**0.0004**	0.3747	Not Reported in ClinVar
TOP3A	rs2294914	SNV	MODIFIER	Homologous recombination	**0.0108**	1	1	**0.0192**	1	Not Reported in ClinVar
TOP3A	rs76300532	SNV	HIGH	Homologous recombination	1	1	1	**1**	1	Not Reported in ClinVar
TOP3A	rs2294913	SNV	MODIFIER	Homologous recombination	0.384	**0.001**	0	**0.0006**	0.0727	Not Reported in ClinVar
TOP3A	rs28671051	SNV	MODERATE	Homologous recombination	**0.0007**	1	1	1	1	Not Reported in ClinVar
TOP3A	rs3817992	SNV	MODIFIER	Homologous recombination	**0.0012**	1	1	1	**0.0207**	Not Reported in ClinVar
XRCC3	rs3212038	SNV	MODIFIER	Homologous recombination	1	**0.0229**	**0.0001**	**0.0012**	1	Not Reported in ClinVar
XRCC3	rs861531	SNV	MODIFIER	Homologous recombination	0	0	1	0	**0.0001**	Not Reported in ClinVar

XRCC3	rs861537	SNV	MODIFIER	Homologous recombination	0.2201	**0.001**	1	0	1	Not Reported in ClinVar
ERCC1	rs735482	SNV	MODIFIER	NER	1	1	1	**0.0361**	1	Not Reported in ClinVar
ERCC1	rs2336219	SNV	MODIFIER	NER	1	1	1	**0.0359**	1	Not Reported in ClinVar
ERCC1	rs3212961	SNV	MODIFIER	NER	1	1	1	**8,00E-04**	1	Not Reported in ClinVar
ERCC1	rs762562	SNV	MODIFIER	NER	1	1	1	**0.0356**	1	Not Reported in ClinVar
ERCC2/XPD	rs2298860	SNV	MODIFIER	NER	1	**0.0019**	1	1	1	Not Reported in ClinVar
ERCC2/XPD	rs1799793	SNV	MODERATE	NER	1	1	0.5984	**0.0055**	**0.0058**	Not Reported in ClinVar
ERCC5	rs4150299	SNV	MODIFIER	NER	0	1	1	0	**0.0013**	Not Reported in ClinVar
MSH3	rs1105525	SNV	MODIFIER	Mismatch repair	1	0.0906	1	**0.0007**	0	Not Reported in ClinVar
MSH3	rs6151734	SNV	MODIFIER	Mismatch repair	0	1	**0.0003**	0	0	Not Reported in ClinVar
MSH3	rs1677653	SNV	MODIFIER	Mismatch repair	0	**0.0003**	1	0	0	Not Reported in ClinVar
MSH3	rs1650648	SNV	MODIFIER	Mismatch repair	**0.0006**	**0.0195**	1	**0.0011**	**0.0004**	Not Reported in ClinVar
MSH3	rs1105524	SNV	MODIFIER	Mismatch repair	0	**0.0333**	1	**0.0023**	0	Not Reported in ClinVar
MSH4	rs28693610	SNV	MODIFIER	Mismatch repair	1	1	0	0.1706	**0.0001**	Not Reported in ClinVar
MSH4	rs5745433	SNV	MODIFIER	Mismatch repair	0.2572	**0.0027**	1	**0.0003**	**0.046**	Not Reported in ClinVar
MSH4	rs5745325	SNV	MODERATE	Mismatch repair	**0.0001**	**0.0078**	1	**0.0002**	**0.0311**	Not Reported in ClinVar
MSH4	rs3765682	SNV	MODIFIER	Mismatch repair	0	0	**0.0025**	0	0	Not Reported in ClinVar

PARP1	rs907187	SNV	MODIFIER	BER	0	0	**0.0035**	0	0	Not Reported in ClinVar
PARP1	rs2666428	SNV	MODIFIER	BER	1	0.2102	0.5624	0	**0.0007**	Not Reported in ClinVar
PARP1	rs2280712	SNV	MODIFIER	BER	1	1	0	**0.0149**	**0.0091**	Not Reported in ClinVar
PARP1	rs1136410	SNV	MODERATE	BER	0	0	**0.0292**	0	0	Not Reported in ClinVar
PARP1	rs2293464	SNV	MODIFIER	BER	0	1	**0.0002**	1	1	Not Reported in ClinVar
PARP1	rs2255403	SNV	MODIFIER	BER	0	0	**0.0191**	0	0	Not Reported in ClinVar
PARP1	rs1805407	SNV	MODIFIER	BER	0	1	**0.0002**	1	1	Not Reported in ClinVar
PARP1	rs1805408	SNV	MODIFIER	BER	0	1	**0.0002**	1	1	Not Reported in ClinVar
PARP1	rs732284	SNV	MODIFIER	BER	**0.0011**	1	**0.0007**	1	1	Not Reported in ClinVar
PARP2	rs878157	SNV	MODIFIER	BER	1	**0.0013**	0	0	0	Not Reported in ClinVar
PARP2	rs3093890	SNV	MODIFIER	BER	1	**0.0021**	**0.0033**	0	0	Not Reported in ClinVar
PARP2	rs200223594	SNV	MODIFIER	BER	1	1	0.1638	0.1672	**0.0003**	Not Reported in ClinVar
PARP2	rs3093904	SNV	MODIFIER	BER	1	**0.0021**	**0.0033**	0	0	Not Reported in ClinVar
PARP2	rs10625811	INDEL	MODIFIER	BER	1	1	0.163	0.167	**0.0003**	Not Reported in ClinVar
PARP2	rs1713430	SNV	MODIFIER	BER	**0.0003**	1	1	1	1	Not Reported in ClinVar