

Human DNA Repair PCR Array

Base Excision Repair (BER): APEX1, APEX2, CCNO, LIG3, MPG, MUTYH, NEIL1, NEIL2, NEIL3, NTHL1, OGG1, PARP1, PARP2, PARP3, POLB, SMUG1, TDG, UNG, XRCC1.

Nucleotide Excision Repair (NER): ATXN3, BRIP1, CCNH, CDK7, DDB1, DDB2, ERCC1, ERCC2, ERCC3, ERCC4, ERCC5, ERCC6, ERCC8, LIG1, MMS19, PNKP, POLL, RAD23A, RAD23B, RPA1, RPA3, SLK, XAB2, XPA, XPC.

Mismatch Repair (MMR): MLH1, MLH3, MSH2, MSH3, MSH4, MSH5, MSH6, PMS1, PMS2, POLD3, TREX1.

Double-Strand Break (DSB) Repair: BRCA1, BRCA2, DMC1, FEN1, LIG4, MRE11A, PRKDC, RAD21, RAD50, RAD51, RAD51C, RAD51B, RAD51D, RAD52, RAD54L, XRCC2, XRCC3, XRCC4, XRCC5, XRCC6.

Other Genes Related to DNA Repair: ATM, ATR, EXO1, MGMT, RAD18, RFC1, TOP3A, TOP3B, XRCC6BP1.