



Mouse DNA Damage Signaling Primer Library

Catalog No: MDDS-1
Supplier: RealTimePrimers
Lot No: XXXXX
Supplied as: solid
Stability: store at -20°C

Description

Contains 88 primer sets directed against DNA damage signaling genes and 8 housekeeping genes. Provided in a 96-well microplate (20 ul - 10 uM). Perform up to 100 PCR arrays (based on 20 ul assay volume per reaction). Just add cDNA template and SYBR green master mix.

Gene List:

- Abl1 C-abl oncogene 1, non-receptor tyrosine kinase
- Apex1 Apurinic/aprimidinic endonuclease 1
- Atm Ataxia telangiectasia mutated homolog (human)
- Atr Ataxia telangiectasia and Rad3 related
- Atrx Alpha thalassemia/mental retardation syndrome X-linked homolog (human)
- Bax BCL2-associated X protein
- Blm Bloom syndrome, RecQ helicase-like
- Brca1 Breast cancer 1
- Brca2 Breast cancer 2
- Brip1 BRCA1 interacting protein C-terminal helicase 1
- Cdc25a Cell division cycle 25 homolog A
- Cdc25b Cell division cycle 25 homolog B
- Cdc25c Cell division cycle 25 homolog C
- Cdkn1a Cyclin-dependent kinase inhibitor 1A (P21)
- Chek1 Checkpoint kinase 1 homolog
- Chek2 CHK2 checkpoint homolog
- Dclre1a DNA cross-link repair 1A, PSO2 homolog
- Ddb2 Damage specific DNA binding protein 2
- Ddit3 DNA-damage inducible transcript 3
- Erc1 Excision repair cross-complementing rodent repair deficiency, complementation group 1
- Erc2 Excision repair cross-complementing rodent repair deficiency, complementation group 2
- Exo1 Exonuclease 1
- Fanca Fanconi anemia, complementation group A
- Fancc Fanconi anemia, complementation group C
- Fancd2 Fanconi anemia, complementation group D2
- Fancg Fanconi anemia, complementation group G
- Fen1 Flap structure specific endonuclease 1
- Gadd45a Growth arrest and DNA-damage-inducible 45 alpha
- Gadd45b Growth arrest and DNA-damage-inducible 45 beta
- Gadd45g Growth arrest and DNA-damage-inducible 45 gamma
- H2afx H2A histone family, member X
- Hus1 Hus1 homolog
- Lig1 Ligase I, DNA, ATP-dependent
- Mbd4 Methyl-CpG binding domain protein 4
- Mcph1 Microcephaly, primary autosomal recessive 1
- Mdc1 Mediator of DNA damage checkpoint 1
- Mgmt O-6-methylguanine-DNA methyltransferase
- Mif Macrophage migration inhibitory factor
- Mlh1 MutL homolog 1 (E. coli)
- Mlh3 MutL homolog 3 (E. coli)
- Mpg N-methylpurine-DNA glycosylase
- Mre11a Meiotic recombination 11 homolog A
- Msh2 MutS homolog 2 (E. coli)
- Msh3 MutS homolog 3 (E. coli)
- Nbn Nibrin
- Nthl1 Nth (endonuclease III)-like 1 (E. coli)
- Ogg1 8-oxoguanine DNA-glycosylase 1
- Parp1 Poly (ADP-ribose) polymerase family, member 1
- Parp2 Poly (ADP-ribose) polymerase family, member 2
- Pcn1 Proliferating cell nuclear antigen
- Pms1 Postmeiotic segregation increased 1
- Pms2 Postmeiotic segregation increased 2
- Pole Polymerase (DNA directed), epsilon
- Polh Polymerase (DNA directed), eta (RAD 30 related)
- Poli Polymerase (DNA directed), iota



- Ppm1d Protein phosphatase 1D magnesium-dependent, delta isoform
- Ppp1r15a Protein phosphatase 1, regulatory subunit 15A
- Prkdc Protein kinase, DNA activated, catalytic polypeptide
- Pttg1 Pituitary tumor-transforming gene 1
- Rad1 RAD1 homolog
- Rad17 RAD17 homolog
- Rad18 RAD18 homolog
- Rad21 RAD21 homolog
- Rad50 RAD50 homolog
- Rad51 RAD51 homolog
- Rad51b RAD51 homolog b
- Rad51c RAD51 homolog c
- Rad52 RAD52 homolog
- Rad9a RAD9a homolog
- Rev1 REV1 homolog
- Rnf8 Ring finger protein 8
- Rpa1 Replication protein A1
- Smc1a Structural maintenance of chromosomes 1A
- Smc3 Structural maintenance of chromosomes 3
- Sumo1 SMT3 suppressor of mif two 3 homolog 1
- Sumo2 SMT3 suppressor of mif two 3 homolog 2
- Terf1 Telomeric repeat binding factor 1
- Topbp1 Topoisomerase (DNA) II binding protein 1
- Trp53 Transformation related protein 53
- Trp53bp1 Transformation related protein 53 binding protein 1
- Ung Uracil DNA glycosylase
- Wrn Werner syndrome homolog
- Xpa Xeroderma pigmentosum, complementation group A
- Xpc Xeroderma pigmentosum, complementation group C
- Xrcc1 X-ray repair complementing defective repair in Chinese hamster cells 1
- Xrcc2 X-ray repair complementing defective repair in Chinese hamster cells 2
- Xrcc3 X-ray repair complementing defective repair in Chinese hamster cells 3
- Xrcc6 X-ray repair complementing defective repair in Chinese hamster cells 6
- Actb Actin, beta
- B2m Beta-2 microglobulin
- Gapd glyceraldehyde-3-phosphate dehydrogenase
- Gusb Glucuronidase, beta
- Hprt1 Hypoxanthine guanine phosphoribosyl transferase 1
- Pgk1 Phosphoglycerate kinase 1
- Ppia Peptidylprolyl isomerase A
- Rpl13a Ribosomal protein L13a

Usage

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