



## Mouse p53 Signaling Primer Library

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

### Description

Contains 88 primer sets directed against TP53 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:

- ACTA2 actin, alpha 2, smooth muscle, aorta
- APAF1 apoptotic peptidase activating factor 1
- ATF3 activating transcription factor 3
- ATM ataxia telangiectasia mutated
- ATR ataxia telangiectasia and Rad3 related
- BAI1 brain-specific angiogenesis inhibitor 1
- BAX BCL2-associated X protein
- BBC3 BCL2 binding component 3
- BCL2 B-cell CLL/lymphoma 2
- BCL2A1 BCL2-related protein A1
- BID BH3 interacting domain death agonist
- BIRC5 baculoviral IAP repeat containing 5
- BRCA1 breast cancer 1, early onset
- BRCA2 breast cancer 2, early onset
- BTG2 BTG family, member 2
- CASP2 caspase 2, apoptosis-related cysteine peptidase
- CASP9 caspase 9, apoptosis-related cysteine peptidase
- CCNB2 cyclin B2
- CCNE2 cyclin E2
- CCNG2 cyclin G2
- CCNH cyclin H
- CDC2 cyclin-dependent kinase 2
- CDC25A cell division cycle 25 homolog A (S. pombe)
- CDK4 cyclin-dependent kinase 4
- CDKN1A cyclin-dependent kinase inhibitor 1A (p21, Cip1)
- CDKN2A cyclin-dependent kinase inhibitor 2A
- CHEK1 checkpoint kinase 1
- CHEK2 checkpoint kinase 2
- CRADD CASP2 and RIPK1 domain containing adaptor with death domain
- DNMT1 DNA (cytosine-5-)-methyltransferase 1
- E2F1 E2F transcription factor 1
- EGR1 early growth response 1
- EGR1 early growth response 1
- ESR1 estrogen receptor 1
- ESR2 estrogen receptor 2 (ER beta)
- FADD Fas (TNFRSF6)-associated via death domain
- FAS Fas (TNF receptor superfamily, member 6)
- FASLG Fas ligand (TNF superfamily, member 6)
- FOXP3 forkhead box P3
- GADD45A growth arrest and DNA-damage-inducible, alpha
- GADD45G growth arrest and DNA-damage-inducible, gamma
- HDAC1 histone deacetylase 1
- HIF1A hypoxia inducible factor 1, alpha subunit
- HK2 hexokinase 2
- IFNB1 interferon, beta 1, fibroblast
- IGF1R insulin-like growth factor 1 receptor
- IL6 interleukin 6 (interferon, beta 2)
- JUN jun proto-oncogene
- KRAS v-Ki-ras2 Kirsten rat sarcoma viral oncogene homolog
- MCL1 myeloid cell leukemia sequence 1 (BCL2-related)
- MDM2 Mdm2, p53 E3 ubiquitin protein ligase homolog (mouse)
- MDM4 Mdm4 p53 binding protein homolog (mouse)
- MLH1 mutL homolog 1, colon cancer, nonpolyposis type 2 (E. coli)
- MSH2 mutS homolog 2, colon cancer, nonpolyposis type 1 (E. coli)
- MYC V-myc myelocytomatosis viral oncogene homolog
- MYOD1 myogenic differentiation 1
- NF1 neurofibromin 1
- NFKB1 nuclear factor of kappa light polypeptide gene enhancer in B-cells 1
- P53AIP1 tumor protein p53 regulated apoptosis inducing protein 1
- PCAF P300/CBP-associated factor
- PCBP4 poly(rC) binding protein 4



- PCNA proliferating cell nuclear antigen
- PPM1D protein phosphatase, Mg<sup>2+</sup>/Mn<sup>2+</sup> dependent, 1D
- PRC1 protein regulator of cytokinesis 1
- PRKCA protein kinase C, alpha
- PTEN phosphatase and tensin homolog
- PTTG1 pituitary tumor-transforming 1
- RB1 retinoblastoma 1
- RELA v-rel reticuloendotheliosis viral oncogene homolog A (avian)
- RPRM reprimin, TP53 dependent G2 arrest mediator candidate
- SESN1 sestrin 1
- SESN2 sestrin 2
- SIAH1 siah E3 ubiquitin protein ligase 1
- SIRT1 sirtuin 1
- STAT1 signal transducer and activator of transcription 1, 91kDa
- TADA3L transcriptional adaptor 3 (NGG1 homolog, yeast)- like
- TNF tumor necrosis factor
- TNFRSF10B tumor necrosis factor receptor superfamily, member 10b
- TNFRSF10D tumor necrosis factor receptor superfamily, member 10d, decoy with truncated death domain
- TP53 tumor protein p53
- TP53BP2 tumor protein p53 binding protein, 2
- TP53I3 tumor protein p53 inducible protein 3
- TP53INP1 tumor protein p53 inducible nuclear protein 1
- TP73 tumor protein p73
- TP63 tumor protein p63
- TRAF2 TNF receptor-associated factor 2
- TSC1 tuberous sclerosis 1
- WT1 Wilms tumor 1
- ACTB Actin, beta
- B2M Beta-2-microglobulin
- GAPD Glyceraldehyde-3-phosphate dehydrogenase
- GUSB Glucuronidase, beta
- HPRT1 Hypoxanthine phosphoribosyltransferase 1
- PGK Phosphoglycerate kinase 1
- PPIA Peptidylprolyl isomerase A
- RPL13A Ribosomal protein L13a

#### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**