

Product datasheet for **RC236396**

p53 (TP53) (NM_001276699) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: p53 (TP53) (NM_001276699) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: TP53
Synonyms: BCC7; BMFS5; LFS1; P53; TRP53
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC236396 representing NM_001276699
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGCCATCTACAAGCAGTCACAGCACATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGTGCT
CAGATAGCGATGGTCTGGCCCTCCTCAGCATCTATCCGAGTGAAGGAAATTTGCGTGTGGAGTATTT
GGATGACAGAAACACTTTTCGACATAGTGTGGTGGTCCCTATGAGCCGCTGAGGTTGGCTCTGACTGT
ACCACCATCCACTACAACACTACATGTGTAACAGTTCCTGCATGGCGGCATGAACCGGAGGCCATCCTCA
CCATCATCACACTGGAAGACTCCAGTGGTAATCTACTGGGACGGAACAGCTTTGAGGTGCGTGTGTTGTGC
CTGTCTGGGAGAGACCGGCGCACAGAGGAAGAGAATCTCCGCAAGAAAGGGGAGCCTCACCACGAGCTG
CCCCAGGGAGCACTAAGCGAGCACTGCCAACCAACACAGCTCCTCTCCCAGCCAAAGAAGAAACAC
TGGATGGAGAATATTTACCCCTTCAGATGCTACTTGACTTACGATGGTGTACTTCTGTAAACTCGTC
G

ACGCGTACGCGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC236396 representing NM_001276699
Red=Cloning site Green=Tags(s)

MAIYKQSQHMTEVVRRCPPHHERCSDSDGLAPPQHLIRVEGNLVEYLDDRNTFRHSVVVPEPEVGSDC
TTIHYNMCMSSCMGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGRRRTEENLRKKGEPHHEL
PPGSTKRALPNNTSSSPQPKKKPLDGEYFTLQMLLDLRWCYFLINSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_001276699.2](#)

RefSeq Size: 2331 bp

RefSeq ORF: 564 bp

Locus ID: 7157

UniProt ID: [P04637](#)

Cytogenetics: 17p13.1

Protein Families: Druggable Genome, Stem cell - Pluripotency, Transcription Factors

Protein Pathways: Amyotrophic lateral sclerosis (ALS), Apoptosis, Basal cell carcinoma, Bladder cancer, Cell cycle, Chronic myeloid leukemia, Colorectal cancer, Endometrial cancer, Glioma, Huntington's disease, MAPK signaling pathway, Melanoma, Neurotrophin signaling pathway, Non-small cell lung cancer, p53 signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, Small cell lung cancer, Thyroid cancer, Wnt signaling pathway

MW: 21.9 kDa

Gene Summary: This gene encodes a tumor suppressor protein containing transcriptional activation, DNA binding, and oligomerization domains. The encoded protein responds to diverse cellular stresses to regulate expression of target genes, thereby inducing cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. Mutations in this gene are associated with a variety of human cancers, including hereditary cancers such as Li-Fraumeni syndrome. Alternative splicing of this gene and the use of alternate promoters result in multiple transcript variants and isoforms. Additional isoforms have also been shown to result from the use of alternate translation initiation codons from identical transcript variants (PMIDs: 12032546, 20937277). [provided by RefSeq, Dec 2016]