

Product datasheet for **RC232444**

p53 (TP53) (NM_001276695) Human Tagged ORF Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | p53 (TP53) (NM_001276695) 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: | >RC232444 representing NM_001276695 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATGATTTGATGCTGTCCCCGGACGATATTGAACAATGGTTCCTGAAGACCCAGGTCCAGATGAAG
CTCCCAGAATGCCAGAGGCTGCTCCCCCGTGGCCCTGCACCAGCAGCTCCTACACCGCGGCCCTGC
ACCAGCCCCTCCTGGCCCTGTCTCTGTCCCTCCAGAAAACCTACCAGGGCAGCTACGGTTTC
CGTCTGGGCTTCTGCATTCTGGGACAGCAAGTCTGTGACTTGACACTCCCTGCCCTCAACAAGA
TGTTTTGCCAACTGGCCAAGACCTGCCCTGTGCAGCTGTGGGTTGATTCCACACCCCGCCCGGCCCCG
CGTCCGCGCCATGGCCATCTACAAGCAGTCACAGCACATGACGGAGGTTGTGAGGCGCTGCCCCACCAT
GAGCGCTGCTCAGATAGCGATGGTCTGGCCCTCCTCAGCATCTTATCCGAGTGGAAAGAAATTTGCGTG
TGGAGTATTTGGATGACAGAAACACTTTTCGACATAGTGTGGTGGTGCCTATGAGCCGCTGAGGTTGG
CTCTGACTGTACCACCATCCACTACAACATCATGTGTAACAGTTCTGCATGGGCGGCATGAACCGGAGG
CCCATCCTCACCATCATCACACTGGAAGACTCCAGTGGTAATCTACTGGGACGGAACAGCTTTGAGGTGC
GTGTTTGTGCCTGTCTGGGAGAGACCGCGCACAGAGGAAGAGAATCTCCGCAAGAAAGGGGAGCCCTCA
CCACGAGCTGCCCCAGGAGCACTAAGCGAGCACTGCCCAACAACACCAAGCTCCTCTCCCAGCCAAAG
AAGAAACCACTGGATGGAGAATATTTACCCCTCAGATGCTACTTGACTTACGATGGTGTACTTCTCTGA
TAAACTCGTCG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC232444 representing NM_001276695
Red=Cloning site Green=Tags(s)

MDDLMLSPDDIEQWFTEDPGPDEAPRMPEAAPPVAPAPAAPTPAAPAPAPSWPLSSSVPSQKTYQGSYGF
 RLGFLHSGTAKSVTCTYSPALNKMFCQLAKTCPVQLWVDSTPPPGRVIRAMAIYKQSQHMTEVVRRCPHH
 ERCSDSDGLAPPQHLIRVEGNLRVEYLLDRNTRFRHSVVVPYEPPEVSGDCTTIHYNMCMNCSSCMGGMNRR
 PILTIITLEDSSGNLLGRNSFEVRYCACACPRDRRTEENLRKKGEPHHELPPGSTKRALPNNTSSSPQPK
 KKPLDGEYFTLQMLLDLRWCYFLINSS

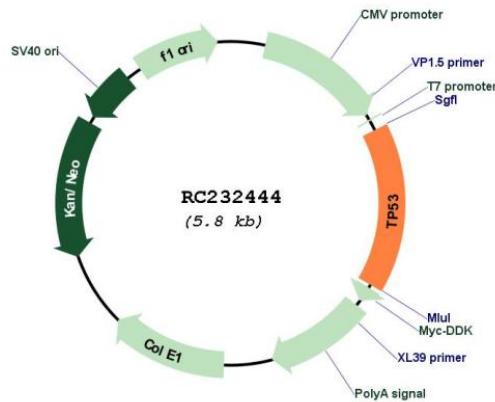
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001276695

ORF Size: 921 bp

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| OTI Disclaimer: | The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info |
| OTI Annotation: | This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene. |
| Components: | The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water). |
| Reconstitution Method: | <ol style="list-style-type: none">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_001276695.2 |
| RefSeq Size: | 2651 bp |
| RefSeq ORF: | 924 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: | 34.6 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] |