

Product datasheet for RC400001

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p53 (TP53) (NM_000546) Human Mutant ORF Clone

Product data:

Product Type: Mutant ORF Clones

Product Name: p53 (TP53) (NM 000546) Human Mutant ORF Clone

Mutation Description: N258-D13

Affected Codon#: 86

Affected NT#: c.258

Nucleotide Mutation: TP53 mutant (N258-D13), Myc-DDK-tagged ORF clone of Homo sapiens tumor protein p53

(TP53), transcript variant 1 as transfection-ready DNA

Effect: Frame Shift

Symbol: p53

Synonyms: BCC7; BMFS5; LFS1; P53; TRP53

Mammalian Cell None

Selection:

Tag:

Myc-DDK

ACCN: NM_000546

ORF Size: 354 bp
Restriction Sites: Sgfl-Mlul

ORF Nucleotide >RC400001 representing NM_000546

Sequence: Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC

GCCGCGATCGCC

ATGGAGGAGCCGCAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGGAAACATTTTCAGACCTATGGA
AACTACTTCCTGAAAACAACGTTCTGTCCCCCTTGCCGTCCCAAGCAATGGATGATTTGATGCTGTCCCC
GGACGATATTGAACAATGGTTCACTGAAGACCCAGGTCCAGATGAAGCTCCCAGAATGCCAGAGGCTGCT
CCCCCCGTGGCCCCTGCACCAGCAGCTCCTACACCGGCGGCCCCTGCTGGCCCCTGTCATCTTCTGTCCC
TTCCCAGAAAACCTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTTGCATTCTGGGACAGCCAAGTCT

G

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA



p53 (TP53) (NM_000546) Human Mutant ORF Clone - RC400001

Protein Sequence: >RC400001 representing NM_000546

Red=Cloning site Green=Tags(s)

MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGPDEAPRMPEAA PPVAPAPAAPTPAAPAGPCHLLSLPRKPTRAATVSVWASCILGOPSL

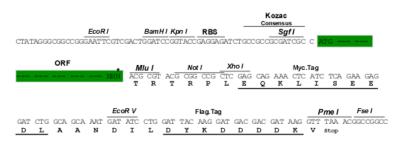
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: /chromatograms/ja1125_d01.zip

Restriction Sites: Sgfl-Mlul

Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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).

RefSeq: NP 000537



Domains:

p53 (TP53) (NM_000546) Human Mutant ORF Clone - RC400001

RefSeq Size:2629 bpRefSeq ORF:1182 bpLocus ID:7157Cytogenetics:17p13.1

P53

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: 12.5 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]