

Product datasheet for **RC400024**

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:	N887-D1
Affected Codon#:	296
Affected NT#:	c.887
Nucleotide Mutation:	TP53 mutant (N887-D1), 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
E. coli Selection:	Ampicillin (100 ug/mL)
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-Myc-DDK (PS100007)
Tag:	Myc-DDK
ACCN:	NM_000546
ORF Size:	1032 bp
Restriction Sites:	Sgfl-Mlul



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ORF Nucleotide Sequence:

>RC400024 representing NM_000546
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGGAGCCGAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGGAAACATTTTCAGACCTATGGA
 AACTACTTCTGAAAACAACGTTCTGTCCCTTGCCGTCCCAAGCAATGGATGATTTGATGCTGTCCCC
 GGACGATATTGAACAATGGTTCAGTGAAGACCCAGGTCCAGATGAAGCTCCAGAAATGCCAGAGGCTGT
 CCCCCGTGGCCCTGCACCAGCAGCTCTACCCGGCGGCCCTGCACCAGCCCCCTCCTGGCCCTGT
 CATCTTCTGTCCCTCCAGAAAACCTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTGCACTTCTGG
 GACAGCCAAGTCTGTGACTTGCACGTAATCCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACC
 TGCCCTGTGCAGCTGTGGTTGATTCCACACCCCGCCCGCACCCGCTCCGCGCCATGGCCATCTACA
 AGCAGTCACAGCAGATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGCTGCTCAGATAGCGATGG
 TCTGGCCCTCCTCAGCATCTTATCCGAGTGAAGGAAATTTGCGTGTGGAGATTTGGATGACAGAAAC
 ACTTTTCGACATAGTGTGGTGGTCCCTATGAGCCGCTGAGGTTGGCTCTGACTGTACCACCATCCACT
 ACAACTACATGTGTAACAGTTCCTGCATGGGCGGCATGAACCGGAGGCCATCCTCACCATCATCACT
 GGAAGACTCCAGTGGTAATCTACTGGGACGGAACAGCTTTGAGGTGCGTGTGTTGTCCTGTCTGGGAGA
 GACCGGCGCACAGAGGAAGAGAATCTCCGCAAGAAAGGGAGCCTCCACGAGCTGCCCCAGGGAGCAC
 TAAGCGAGCACTGCCAACAACACAGCTCCTCTCCAGCAAGAAGAACCCTGGATGGAGAATAT
 TTCACCTTCAGATCCGTGGCGTGAGCGCTTCGAGATGTTCCGAGAGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC400024 representing NM_000546
 Red=Cloning site Green=Tags(s)

MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGPDEAPRMPEAA
 PPVAPAPAAPTPAAPAPAPSWPLSSSVPSQKTYQGSYGFRLGFLHSGTAKSVTCTYSPALNKMFCQLAKT
 CPVQLWVDSTPPPGRVVRAMAIYKQSQHMTEVVRRCPPHHERCSDSDGLAPPQHLIRVEGNLRVEYLDDRN
 TFRHSVVVPYEPPEVGSDCCTIHYNYMCNSSCMGMNRRPILTIITLEDSSGNLLGRNSFEVRVVCACPGR
 DRRTEENLRKKGEPPSCPQALSEHCPTTPAPLPSQRRNHWMENISPFRSVGVASRCSSES

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

/chromatograms/ja1125_b10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



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](#)

RefSeq Size:

2629 bp

RefSeq ORF:

1182 bp

Locus ID:

7157

Cytogenetics:

17p13.1

Domains:

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:	37.8 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]