

Product datasheet for RC403813

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OriGene Technologies, Inc. 9620 Medical Center Drive, Ste 200

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: D391N

Affected Codon#: 391

Affected NT#: c.1171

Nucleotide Mutation: TP53 mutant (D391N), Myc-DDK-tagged ORF clone of Homo sapiens tumor protein p53 (TP53),

transcript variant 1 as transfection-ready DNA

Effect: Missense

Symbol: p53

Synonyms: BCC7; BMFS5; LFS1; P53; TRP53

E. coli Selection: Ampicillin (100 ug/mL)

Mammalian Cell Neomycin

Selection:

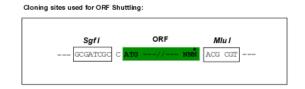
Vector: pCMV6-AN-Myc-DDK (PS100016)

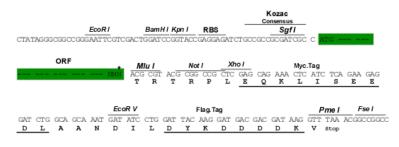
Tag: Myc-DDK
ACCN: NM 000546

ORF Size: 1179 bp
Restriction Sites: Sgfl-Mlul
Restriction Sites: Sgfl-Mlul



Cloning Scheme:





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

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).

RefSeq: NP 000537

RefSeq Size: 2629 bp
RefSeq ORF: 1182 bp
Locus ID: 7157
Cytogenetics: 17p13.1

Domains: P53



p53 (TP53) (NM_000546) Human Mutant ORF Clone - RC403813

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: 43.6 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]