

Product datasheet for **RC400087**

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:	K291X
Affected Codon#:	291
Affected NT#:	c.871
Nucleotide Mutation:	TP53 mutant (K291X), Myc-DDK-tagged ORF clone of Homo sapiens tumor protein p53 (TP53), transcript variant 1 as transfection-ready DNA
Effect:	nonsense
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:	873 bp
Restriction Sites:	Sgfl-Mlul



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ORF Nucleotide Sequence:

>RC400087 representing NM_000546
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGGAGCCGAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGGAAACATTTTCAGACCTATGGA
 AACTACTTCTGAAAACAACGTTCTGTCCCTTGCCGTCCTCAAGCAATGGATGATTTGATGCTGTCCCC
 GGACGATATTGAACAATGGTTCCTGAAGACCCAGGTCCAGATGAAGCTCCAGAATGCCAGAGGCTGCT
 CCCCCGTGGCCCTGCACCAGCAGCTCCTACCCGGCGGCCCTGCACCAGCCCCCTCCTGGCCCTGT
 CATCTTCTGTCCCTCCAGAAAACCTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTTGCACTCTGG
 GACAGCCAAGTCTGTGACTTGCACGTACTCCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACC
 TGCCCTGTGCAGCTGTGGTTGATTCCACACCCCGCCCGCACCCGCTCCGCGCCATGGCCATCTACA
 AGCAGTCACAGCAGATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGCTGCTCAGATAGCGATGG
 TCTGGCCCTCCTCAGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGATTTGGATGACAGAAAC
 ACTTTTCGACATAGTGTGGTGGTCCCTATGAGCCGCTGAGGTTGGCTCTGACTGTACCACCATCCACT
 ACAACTACATGTGTAACAGTTCCTGCATGGCGGCATGAACCGGAGGCCATCCTCACCATCATCACT
 GGAAGACTCCAGTGGTAATCTACTGGGACGGAACAGCTTTGAGGTGCGTGTGTGCCTGTCTGGGAGA
 GACCGCGCACAGAGAAAGAGAATCTCCGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC400087 representing NM_000546
 Red=Cloning site Green=Tags(s)

MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGPDEAPRMPEAA
 PPVAPAAPAPAPAPAPSWPLSSSVPSQKTYQGSYGFRLGFLHSGTAKSVTCTYSPALNKMFCQLAKT
 CPVQLWVDSTPPPGRVTRAMAIYKQSQHMTEVRRRCPHHERCSDSDGLAPPQHLIRVEGNLRVEYLDDRN
 TFRHSVVVPYEPPEVGSDCCTTIHNYMCNSSCMGMNRRPILTIITLEDSSGNLLGRNSFEVRCACPGR
 DRRTEKENLR

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

/chromatograms/ja1134_f01.zip

Restriction Sites:

Sgfl-MluI

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:	32.1 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]