

## Product datasheet for **RC400037**

### **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:	Y163C
Affected Codon#:	163
Affected NT#:	c.488
Nucleotide Mutation:	TP53 mutant (Y163C), 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 Selection:	Neomycin
Vector:	pCMV6-AC-Myc-DDK (PS100007)
Tag:	Myc-DDK
ACCN:	NM_000546
ORF Size:	1182 bp
Restriction Sites:	Sgfl-Mlul



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**ORF Nucleotide Sequence:**

>RC400037 representing NM\_000546  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGAGGAGCCGAGTCAGATCCTAGCGTCGAGCCCCCTCTGAGTCAGGAAACATTTTCAGACCTATGGA  
 AACTACTTCTGAAAACAACGTTCTGTCCCTTGCCGTCCCAAGCAATGGATGATTTGATGCTGTCCCC  
 GGACGATATTGAACAATGGTTCCTGAAGACCCAGGTCCAGATGAAGCTCCAGAAATGCCAGAGGCTGT  
 CCCCCGTGGCCCTGCACCAGCAGCTCTACCCGGCGGCCCTGCACCAGCCCCCTCCTGGCCCTGT  
 CATCTTCTGTCCCTCCAGAAAACCTACCAGGGCAGCTACGGTTTCCGTCTGGGCTTCTTGCACTTCTGG  
 GACAGCCAAGTCTGTGACTTGCACGTACTCCCCTGCCCTCAACAAGATGTTTTGCCAACTGGCCAAGACC  
 TGCCCTGTGCAGCTGTGGTTGATTCCACACCCCGCCCGCACCCGCTCCGCGCCATGGCCATCTGCA  
 AGCAGTCACAGCACATGACGGAGGTTGTGAGGCGCTGCCCCACCATGAGCGCTGCTCAGATAGCGATGG  
 TCTGGCCCTCCTCAGCATCTTATCCGAGTGGAAGGAAATTTGCGTGTGGAGATTTGGATGACAGAAAC  
 ACTTTTCGACATAGTGTGGTGGTCCCTATGAGCCGCTGAGGTTGGCTCTGACTGTACCACCATCCACT  
 ACAACTACATGTGTAACAGTTCCTGCATGGCGGCATGAACCGGAGGCCATCCTCACCATCATCACT  
 GGAAGACTCCAGTGGTAATCTACTGGGACGGAACAGCTTTGAGGTGCGTGTTTGTGCCTGTCTGGGAGA  
 GACCGGCGCACAGAGGAAGAAATCTCCGCAAGAAAGGGGAGCCTCACCAGAGCTGCCCCAGGGAGCA  
 CTAAGCGAGCACTGCCAAACAACACCAGCTCCTCTCCCCAGCCAAAGAAGAAACCACTGGATGGAGAATA  
 TTTACCCCTTCAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCCGAGAGCTGAATGAGGCCTTGGAACTC  
 AAGGATGCCAGGCTGGGAAGGAGCCAGGGGGAGCAGGGCTCACTCCAGCCACCTGAAGTCCAAAAAGG  
 GTCAGTCTACCTCCCGCCATAAAAACTCATGTTCAAGACAGAAGGGCCTGACTCAGAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC400037 representing NM\_000546  
 Red=Cloning site Green=Tags(s)

MEEPQSDPSVEPPLSQETFSDLWKLLPENNVLSPLPSQAMDDLMLSPDDIEQWFTEDPGPDEAPRMPEAA  
 PPVAPAPAAPTPAAPAPAPSWPLSSSVPSQKTYQGSYGFRLGFLHSGTAKSVTCTYSPALNKMFCQLAKT  
 CPVQLWVDSTPPPGTRVRAMAICKQSQHMTEVVRRCPHHERCSDSDGLAPPQHLIRVEGNLRVEYLDDRN  
 TFRHSVVVPYEPPEVGSDCCTIIHYNMCSNCSMGMNRRPILTIITLEDSSGNLLGRNSFEVRVCACPGR  
 DRRTEENLRKKGEPHHELPPGSTKRALPNNTSSSPQPKKPLDGEYFTLQIRGRERFEMFRELNEALEL  
 KDAQAGKEPGGSAHSSHLKSKKGQTSRHKKLMFKTEGPDS

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

/chromatograms/ja1115\_d01.zip

**Restriction Sites:**

Sgfl-Mlul



<b>Protein Pathways:</b>	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
<b>MW:</b>	43.6 kDa
<b>Gene Summary:</b>	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]