

Product datasheet for RR201296

Tp53 (NM_030989) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Tp53 (NM_030989) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Tp53
Synonyms:	p53; Trp53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RR201296 representing NM_030989 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGAGGATTCACAGTCGGATATGAGCATCGAGCTCCCTCTGAGTCAGGAGACATTTTCATGCTTATGGA
AACTTCTCTCCAGATGATATTCTGCCACCACAGCGACAGGGTCACCTAATCCATGGAAGATCTGTT
CCTGCCCCAGGATGTTGCAGAGTTGTTAGAAGGCCAGAGGAAGCCCTCCAAGTGCAGCTCCTGCAGCA
CAGGAACCTGGAAGTGGGCCCCGACCCCGTGGCCCCGCTTCAGCTACACCGTGGCCTCTGTCATCTT
CCGTCCCTTCTCAAAAACTTACCAAGGCAACTATGGCTTCCACCTGGGCTTCTGCAGTCAGGGACAGC
CAAGTCTGTTATGTGCAGTACTCAATTTCCCTCAATAAGCTGTTCTGCCAGCTGGCGAAGACATGCCCT
GTGCAGTTGTGGGTACCTCCACACCTCCACCTGGTACCCGTGTCCGTGCCATGGCCATCTACAAGAAGT
CACAACACATGACTGAGGTGCTGAGACGCTGCCCCACCATGAGCGTTGCTCTGATGGTGACGGCCTGGC
TCCTCCCCAACATCTTATCCGGGTGGAAGGAAATCCGTATGCTGAGTATCTGGACGACAGGCAGACTTTT
CGGCACAGCGTGGTGGTACCGTATGAGCCACCTGAGGTCGGCTCCGACTATACCACTATCCACTACAAGT
ACATGTGCAACAGCTCCTGCATGGGGGGCATGAACCGCCGGCCATCCTTACCATCATCACGCTGGAAGA
CTCCAGTGGGAATCTTCTGGGACGGGACAGCTTTGAGGTTGCTGTTTGTGCCTGTCCTGGGAGAGACCGT
CGGACAGAGGAAGAAAATTTCCGCAAAAAGAAGAGCATTGCCCGAGCTGCCCCAGGGAGTGCAAAGA
GAGCACTGCCACCAGCACAAGCTCCTCTCCCCAGCAAAAAGAAAACCCTCGATGGAGAATATTTACAC
CCTTAAGATCCGTGGGCGTGAGCGCTTCGAGATGTTCCGAGAGCTGAATGAGGCCTTGAATTAAGGAT
GCCCGTGTGCCGAGGAGTCAGGAGACAGCAGGGCTCACTCCAGCTACCCGAAGACCAAGAAGGGCCAGT
CTACGTCCCGCCATAAAAAACCAATGATCAAGAAAGTGGGCGCTGACTCAGACCTACGTCCCGCCATAAA
AAACCAATGATCAAGAAAGTGGGCGCTGACTCAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >RR201296 representing NM_030989
Red=Cloning site Green=Tags(s)

MEDSQSDMSIELPLSQETFSCWLKLLPPDDILPTTATGSPNSMEDLFLPQDVAELLEGPEEALQVSAPAA
 QEPGTEAPAPVAPASATPWPLSSSVPSQKTYQGNYGFHLGFLQSGTAKSVMTYSISLNKLFQQLAKTCP
 VQLWVTSTPPPGRVVRAMAIYKKSQHMTEVVRRCPHHERCSDGDGLAPPQHLIRVEGNPYAEYLDDRQTF
 RHSVVVPYEPPEVGSDYTTIHYKYMCSNCSMGMNRRPILTIITLEDSSGNLLGRDSFEVRYCACPGRDR
 RTEEENFRKKEEHCELPPEPSSAKRALPTSTSSSPQKQKPLDGEYFTLIRGRERFEMFRELNEALELKD
 ARAAEESGDSRAHSSYPKTKKGQSTSRHKKPMIKKVGPDSDLRPAIKNQ*SRKWGLTQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/ja1653_a10.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_030989

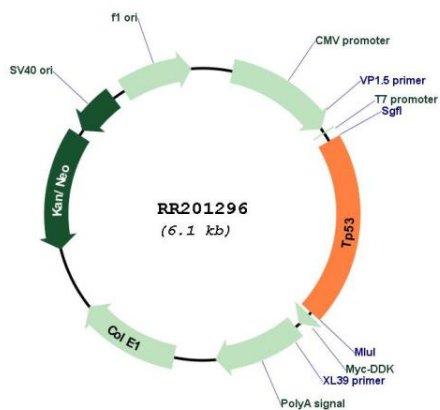
ORF Size: 1173 bp

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).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq Size:	1792 bp
RefSeq ORF:	1176 bp
Locus ID:	24842
UniProt ID:	P10361
Cytogenetics:	10q24
MW:	43.5 kDa
Gene Summary:	This gene encodes tumor protein p53, which responds to diverse cellular stresses to regulate target genes that induce cell cycle arrest, apoptosis, senescence, DNA repair, or changes in metabolism. p53 protein is expressed at low level in normal cells and at a high level in a variety of transformed cell lines, where it is believed to contribute to transformation and malignancy. p53 is a DNA-binding protein containing transcription activation, DNA-binding, and oligomerization domains. It is postulated to bind to a p53-binding site and activate expression of downstream genes that inhibit growth and/or invasion, and thus function as a tumor suppressor. Alternatively spliced transcript variants have been found for this gene, but the biological validity of the variants has not been determined. p53 pseudogenes have been found on chromosomes 9 and 18. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RR201296