

Product datasheet for MR206086

Trp53 (NM_011640) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trp53 (NM_011640) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trp53
Synonyms:	bb1; bfy; bhy; p4; p5; p44; p53; Tp53
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR206086 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGACTGCCATGGAGGAGTCACAGTCGGATATCAGCCTCGAGCTCCCTCTGAGCCAGGAGACATTTTCAG
GCTTATGGAACTACTTCTCCAGAAGATATCTGCCATCACCTCACTGCATGGACGATCTGTTGCTGCC
CCAGGATGTTGAGGAGTTTTTTGAAGGCCAAGTGAAGCCCTCCGAGTGTGAGGAGCTCTGCAGCAGAG
GACCCTGTACCCGAGACCCCTGGGCCAGTGGCCCTGCCCGCCACTCCATGGCCCTGTCATCTTTG
TCCCTTCTCAAAAACTTACCAGGGCACTATGGCTTCCACCTGGGCTTCTGCAGTCTGGGACAGCCAA
GTCTGTTATGTGCACGACTCTCCTCCCTCAATAAGCTATTCTGCCAGCTGGCGAAGACGCTGCCCTGTG
CAGTTGTGGGTCAGCGCCACACCTCCAGCTGGGAGCCGTGTCCGCGCCATGGCCATCTACAAGAAGTCAC
AGCACATGACGGAGGTCGTGAGACGCTGCCCCACCATGAGCGCTGCTCCGATGGTGATGGCCTGGCTCC
TCCCCAGCATCTTATCCGGGTGGAAGGAAATTTGTATCCCGAGTATCTGGAAGACAGGCAGACTTTTCGC
CACAGCGTGGTGGTACCTTATGAGCCACCCGAGGCCGGCTCTGAGTATACCACATCCACTACAAGTACA
TGTGTAATAGCTCCTGCATGGGGGCATGAACCGCCGACCTATCCTTACCATCATCACTGGAAGACTC
CAGTGGGAACCTTCTGGGACGGGACAGCTTTGAGGTTCTGTTTGTGCCTGCCCTGGGAGAGACCCGCT
ACAGAAGAAGAAAATTTCCGCAAAAAGGAAGTCTTTGCCCTGAATGCCCCAGGGAGCGCAAAGAGAG
CGCTGCCACCTGCACAAGCGCCTCTCCCGCAAAAAGAAAACCACTTGATGGAGAGATTTTCACCT
CAAGATCCCGGGCGTAAACGCTTCGAGATGTTCCGGGAGCTGAATGAGGCCTTAGAGTTAAAGGATGCC
CATGCTACAGAGGAGTCTGGAGACAGCAGGGCTCACTCCAGCTACCTGAAGACCAAGAAGGGCCAGTCTA
CTTCCCGCATAAAAAACAATGGTCAAGAAAGTGGGCTGACTCAGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



[View online »](#)

Protein Sequence: >MR206086 protein sequence
 Red=Cloning site Green=Tags(s)

MTAMEESQSDISLELPLSQETFSGLWKLPPEDILPSPHCMDLLLPQDVVEEFFEGPSEALRVSGAPAAQ
 DPVTETPGVPAPATPWPLSSFVPSQKTYQGNYGFHLGFLQSGTAKSVMCTYSPPLNKLFCQLAKTCPV
 QLWVSATPPAGSRVRAMAIYKKSQHMTEVVRRCPPHHERCSDGDGLAPPQHLIRVEGNLYPEYLEDRQTFR
 HSVVVPYEPPEAGSEYTTIHYKYMCNSSCMGGMNRRPILTIITLEDSSGNLLGRDSFEVRCACPGRRDR
 TEEENFRKKEVLCPELPPGSAKRALPTCTASPPQKKPLDGEYFTLIRGRKRFEMFRELNEALELKDA
 HATEESGDSRAHSSYLKTKKGQSTSRHKKTMVKKVGPDS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011640

ORF Size: 1170 bp

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).

Reconstitution Method:

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_011640.3](#)

RefSeq Size: 1781 bp

RefSeq ORF: 1173 bp

Locus ID: 22059

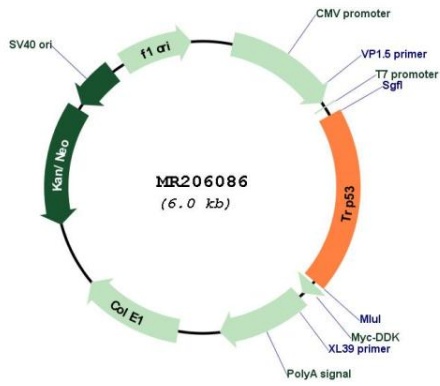
UniProt ID: [P02340](#)

Cytogenetics: 11 42.83 cM

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's 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. Mice deficient for this gene are developmentally normal but are susceptible to spontaneous tumors. Evidence to date shows that this gene contains one promoter, in contrast to alternative promoters of the human gene, and transcribes a few of splice variants which encode different isoforms, although the biological validity or the full-length nature of some variants has not been determined. [provided by RefSeq, Jul 2008]

Product images:



Circular map for MR206086