

## Product datasheet for MR227291

### Trp53 (NM\_001127233) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Trp53 (NM_001127233) 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:	>MR227291 representing NM_001127233 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGC**C

ATGACTGCCATGGAGGAGTCACAGTCGGATATCAGCCTCGAGCTCCCTCTGAGCCAGGAGACATTTTCAG  
GCTTATGGAACTACTTCTCCAGAAGATATCTGCCATCACCTCACTGCATGGACGATCTGTTGCTGCC  
CCAGGATGTTGAGGAGTTTTTTGAAGGCCAAGTGAAGCCCTCCGAGTGTGAGGAGCTCTGCAGCAGAG  
GACCCTGTACCGAGACCCCTGGGCCAGTGGCCCTGCCAGCCACTCCATGGCCCTGTCATCTTTG  
TCCCTTCTCAAAAACTTACCAGGGCACTATGGCTTCCACCTGGGCTTCTGCAGTCTGGGACAGCCAA  
GTCTGTTATGTGCACGACTCTCTCCCTCAATAAGCTATTCTGCCAGCTGGCGAAGACGCTGCCCTGTG  
CAGTTGTGGGTCAGCGCCACACCTCCAGCTGGGAGCCGTGTCGCGCCATGGCCATCTACAAGAAGTCAC  
AGCACATGACGGAGGTCGTGAGACGCTGCCCCACCATGAGCGCTGCTCCGATGGTATGGCCTGGCTCC  
TCCCCAGCATCTTATCCGGGTGGAAGGAAATTTGTATCCCGAGTATCTGGAAGACAGGCAGACTTTTCGC  
CACAGCGTGGTGGTACCTTATGAGCCACCCGAGGCCGGCTCTGAGTATACCACATCCACTACAAGTACA  
TGTGTAATAGCTCCTGCATGGGGGCATGAACCGCCGACCTATCCTTACCATCATCACTGGAAGACTC  
CAGTGGGAACCTTCTGGGACGGGACAGCTTTGAGGTTCTGTGTTGTCCTGCCCTGGGAGAGACCCGCT  
ACAGAAGAAGAAATTTCCGCAAAAAGGAAGTCTTTGCCCTGAACTGCCCCAGGGAGCGCAAAGAGAG  
CGCTGCCACCTGCACAAGCGCCTCTCCCGCAAAAAGAAAACCACTTGATGGAGAGATTTTCACCTT  
CAAGATCCCGGGCGTAAACGCTTCGAGATGTTCCGGGAGCTGAATGAGGCCTTAGAGTTAAAGGATGCC  
CATGCTACAGAGGAGTCTGGAGACAGCAGGGCTCACTCCAGCCTCCAGCCTAGAGCCTTCAAGCCTTGA  
TCAAGGAGGAAAGCCAACTGC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR227291 representing NM\_001127233  
 Red=Cloning site Green=Tags(s)

MTAMEESQSDISLELPLSQETFSGLWKLPPEDILPSPHCMDLLLPQDVVEEFFEGPSEALRVSGAPAAQ  
 DPVTETPGVPAPATPWPLSSFVPSQKTYQGNYGFHLGFLQSGTAKSVMCTYSPPLNKLFCQLAKTCPV  
 QLWVSATPPAGSRVRAMAIYKKSQHMTEVVRRCPPHHERCSDGDGLAPPQHLIRVEGNLYPEYLEDRQTFR  
 HSVVVPYEPPEAGSEYTTIHYKMYCNSSCMGGMNRRPILTIITLEDSSGNLLGRDSFEVRCACACGRDRR  
 TEEENFRKKEVLCPELPPGSAKRALPTCTASPPQKKKPLDGEYFTLKIIRGRKRFEMFRELNEALELKDA  
 HATEESGDSRAHSSLQPRAFQALIKEESPNC

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001127233

**ORF Size:** 1143 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.

**RefSeq:** [NM\\_001127233.1](#), [NP\\_001120705.1](#)

**RefSeq Size:** 1877 bp

**RefSeq ORF:** 1146 bp

**Locus ID:** 22059

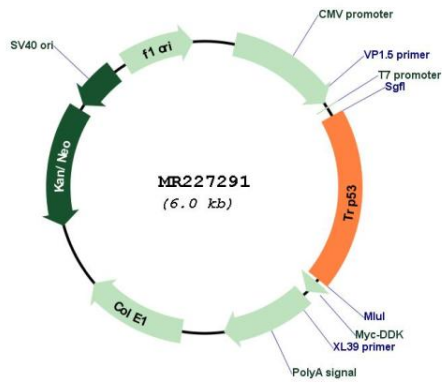
**UniProt ID:** [P02340](#)

**Cytogenetics:** 11 42.83 cM

**MW:** 42.9 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 MR227291