

Product datasheet for **MR228232**

Trp53inp1 (NM_001199105) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trp53inp1 (NM_001199105) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Trp53inp1
Synonyms:	2700057G22Rik; SIP; SIP18; SIP27; Stinp; Teap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR228232 representing NM_001199105 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCAGAGACTGAATAAAATGTTTGTAGGCGAAGTCACTACTTCTCCAGCCAAGAACCAGAATTCA
GTGAGAAAGAAGATGATGAATGGATTCTGTGACTTCATAGATACCTGCCCTGGTTTCTCAGCAGAGGA
AGAGGAAGAAGATGAAGACATTGGTGAAGAGTCCTCAGCAGAGCACACTTCTGTCTTCTCCTGTTTACCT
GCATCTTTGGAATGCTTGACTGACACCAGTGATTCCTGCTTCCTTCAGTTTGAGTCCTGTCCAATGGAGG
AGAGCTGGTTCATCACTCCTCCCCATGTTTTACAGCAGGTGGATTAACCACTATCAAGGTGAAACAAG
TCCTATGGAAAACCTTCTCATTGAACATCCCAGCATGTCTGTCTATGCTGTGCACAACTCCTGTCCTGGT
CTCAGTGAGGCGAGTTGTGGAAATGATGAATATAACTCAAGTGGTCCCAGGGCCAGAAAAAGCTGCTTA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:	>MR228232 representing NM_001199105 Red=Cloning site Green=Tags(s)
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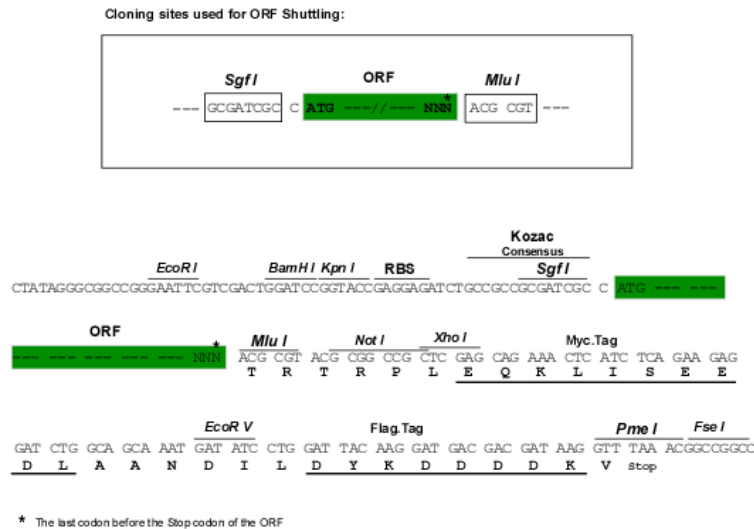
MFQRLNKMVFGEVTTSSSQEPEFSEKEDDEWILVDFIDTCPGFSAEEDDEDIGEESSAEHTSVFSCLP
ASLECLTDTSDSCFLQFESCPMEESWFIPTPPCF TAGGLTTIKVETSPMENLLIEHPSMSVYAVHNSCPG
LSEASCGNDEYNSSGPRARKSCL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:	SgfI-MluI
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Cloning Scheme:


ACCN: NM_001199105

ORF Size: 489 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_001199105.2](#)

RefSeq Size: 5430 bp

RefSeq ORF: 492 bp

Locus ID: 60599

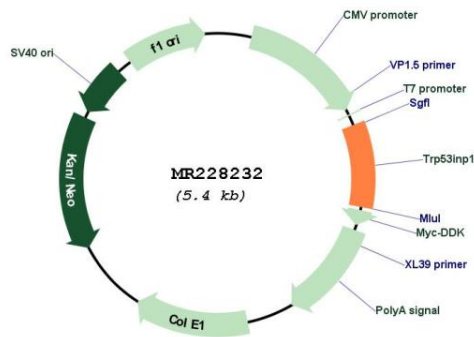
UniProt ID: Q9QXE4

Cytogenetics: 4 A1

MW: 18.5 kDa

Gene Summary: Antiproliferative and proapoptotic protein involved in cell stress response which acts as a dual regulator of transcription and autophagy. Acts as a positive regulator of autophagy. In response to cellular stress or activation of autophagy, relocates to autophagosomes where it interacts with autophagosome-associated proteins GABARAP, GABARAPL1/L2, MAP1LC3A/B/C and regulates autophagy. Acts as an antioxidant and plays a major role in p53/TP53-driven oxidative stress response. Possesses both a p53/TP53-independent intracellular reactive oxygen species (ROS) regulatory function and a p53/TP53-dependent transcription regulatory function. Positively regulates p53/TP53 and p73/TP73 and stimulates their capacity to induce apoptosis and regulate cell cycle. In response to double-strand DNA breaks, promotes p53/TP53 phosphorylation on 'Ser-46' and subsequent apoptosis. Acts as a tumor suppressor by inducing cell death by an autophagy and caspase-dependent mechanism. Can reduce cell migration by regulating the expression of SPARC.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR228232