

Product datasheet for MC210213

Trp53inp1 (NM_021897) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Trp53inp1 (NM_021897) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Trp53inp1
Synonyms:	2700057G22Rik; SIP; SIP18; SIP27; Stinp; Teap
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC210213 representing NM_021897 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGTTTCAGAGACTGAATAAAATGTTTGTAGGCGAAGTCACTACTTCTTCCAGCCAAGAACCAGAATTCA
GTGAGAAAGAAGATGATGAATGGATTCTTGTTGACTTCATAGATACCTGCCCTGGTTTCTCAGCAGAGGA
AGAGGAAGAAGATGAAGACATTGGTGAAGAGTCCTCAGCAGAGCACACTTCTGTCTTCTCCTGTTTACCT
GCATCTTTGGAATGCTTGACTGACACCAGTGATTCCTGCTTCCTTCAGTTTGAGTCCTGTCCAATGGAGG
AGAGCTGGTTCATCACTCCTCCCCATGTTTTACAGCAGGTGGATTAACCACTATCAAGGTGGAACAAG
TCCTATGGAAAACCTTCTCATTGAACATCCCAGCATGTCTGTCTATGCTGTGCACAACTCCTGTCCTGGT
CTCAGTGAGGCGAGTTGTGGAAATGATGAATATAACTCAAGTGGTCCCAGAATGGAAGCCAGAGTGAAA
TGGGGAAGCACATTCACTGCTGTGTGGCAGCACTTGCTGCTCAGGCAACATTTTGAACAACCCAGAG
TTTTCGCCCTTCCCAGTGGATAAAGGACACAGTGAAAGACAGTCTTGAACAGAAATGGTCTCCGTCGC
CAGAACCTTACCAGGGATTGCCACACTCGACAAATGAAGCACAGTGGCTGGGTGGTTCACCAGCCCTGCC
CACGCCAGTACAATTAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_021897
Insert Size:	720 bp


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OTI Disclaimer:	<p>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.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_021897.3 , NP_068697.1
RefSeq Size:	5392 bp
RefSeq ORF:	720 bp
Locus ID:	60599
UniProt ID:	Q9QXE4
Cytogenetics:	4 A1

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]

Transcript Variant: This variant (1) encodes the longer isoform (1; also known as SIP27).

Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.