

Product datasheet for **SC101425**

p53 DINP1 (TP53INP1) (NM_033285) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	p53 DINP1 (TP53INP1) (NM_033285) Human Untagged Clone
Tag:	Tag Free
Symbol:	p53 DINP1
Synonyms:	p53DINP1; SIP; Teap; TP53DINP1; TP53INP1A; TP53INP1B
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC101425 sequence for NM_033285 edited (data generated by NextGen Sequencing)

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ATGTTCCAGAGGCTGAATAAAATGTTTGTGGGTGAAGTCAGTTCTTCCTCCAACCAAGAA
CCAGAATTCAATGAGAAAGAAGATGATGAATGGATTCTTGTTGACTTCATAGATACTTGC
ACTGGTTTCTCAGCAGAAGAAGAAGAAGAGAGGACATCAGTGAAGAGTCACCTACT
GAGCACCTTCAGTCTTTTCTGTTTACCGGCATCTCTTGAGTGCTTGGCTGATACAAGT
GATTCCTGCTTTTCTCCAGTTTGAGTCATGTCCAATGGAGGAGAGCTGGTTTATCACCCCA
CCCCATGTTTTACTGCAGGTGGATTAACCACTATCAAGGTGAAACAAGTCCTATGGAA
AACCTTCTCATTGAACATCCCAGCATGTCTGTCTATGCTGTGCATAACTCCTGCCCTGGT
CTCAGTGAGGCCACCCGTGGGACTGATGAATTACATAGCCCAAGTAGTCCCAGAGTGAA
GCTCAAAATGAAATGGGGCAGCATATTCATTGTTATGTTGCAGCTCTTGCTGCTCATACA
ACTTTTCTGGAACAACCCAAGAGCTTTGCGCCCTCCAGTGGATAAAAGAACACAGTGAA
AGACAGCCTCTTAACAGAAATAGCCTTCGTCGCCAAAATCTTACCAGGGATTGCCACCT
CGGCAAGTCAAGCACAATGGCTGGGTTGTTTCATCAGCCCTGCCCGCTCAGTACAATTAC
TAA
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Clone variation with respect to NM_033285.3



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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_033285 unedited TTGTATACGACTTACTATAGGCGGCCGGAATTCGCACGAGGGCCCGACGGCGAGCGGAG CGGCCGATCAGCTGTTGCGAGCGCTGCACAACAACAAAGGACTTGGACTGGCCGGCCTG GGGCAGCGACCCGAGGGCTGGAGCCGGCCCGCCGCTGCCGTCTGGGTACCTGAACGAG GTGCAGCGCAGCCGGCCACCAGCTACCTCAGCAGTCCCGCCCGCCCGCTCCTT CCCCAGGAGCCGGCCGCTCCCTTCCCGCGCAGCCCGCACGGCCCGGGCCACGT ACAATGACTCTTCTTGTCTTTTACCTAAGTTGAATAAGCACCTGTGCACCTTAAATCTCC TGTCGGTACCATTGGGCCAACTAAAGACAAGGTTTTGAAATCTCAGCTATAAAGACATC CAGCCAACTCTCAGTCTTGCCTTAAACAATGTTCCAGAGGCTGAATAAAATGTTGTGGG TGAAGTCAGTTCTTCTCCAACCAAGAACCAGAATTCAATGAGAAAGAAGATGATGAATG GATTCTTGTTGACTTCATAGATACTTGCCTGTTTCTCAGCNGAAGAAGAAGAAGA GGAGGACATCAGTGAAGAGTCACCTACTGAGCACCTTCACTTCTTCTGTTTACCGGC ATCTCTTGAGTGTGGCTGATACAAGTATTCTGCTTCTCCAGTTTGAGTCATGTCC AATGGAGGAGAGCTGGTTATCACCCACCCCATGTTTACTGCAGGTGGATTAACCAC TATCAGGGTGAAACAGTCTATGGAAACCTCTATTGAACACCCACATGTCTGTCTA TGCTGTGCATAACTCCTGCCCTGGTCTCA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_033285 unedited GCTATGTACGCGCCGTTTCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCTT TTTTCCCTGAAGGTAAAGGACACCTTTATTTATCTGAAGAATTGAAAACGTAACCCAG GTAGCGCAAAATGCACCACAACCAATTACAAAGAACAGGTGTTAATACACAATGTTCAA ACCATGCTACACTCATTTTTGGGAAAGGGGTGATTGTTACCTTGTGTTCTAAATTGAC CATTTATGAACCAATCCAGTATCAAACATTCCTATAAAAAACAACTTTAAATAGGGGCC CAAAAAAGTTGCCCTTATGTATAAACCGACGTACCGCAACCTAACCAATGTCCCCT TTTGAATTCCTAAGTTACCGACCCAAACCTGTGAGAAACATTTCAATAAGGCCACGT ACCGTTTAAAAACTTTTTAGTTCTTCTAACTCATGCCCGCCCTATAAAGGAAACCCG CTTCCCTCTACTTGCAAAAAACCTATCCCATTCCCAAAACACCCAACTCCCGTC ATTTCTTACATTTAACATTTCTGGCGGAAATCAATCCCCACCTTGTATATTTCCACC CTCGAAATCACATCATCCCTCCAATATGTTTTGGGTTTGTTCCTTACCACCTCTCCCGT ACAACACACCATTCTAATACCCCGCCCGCCACTCTCATATCCTGCCCTCCAAATCT TCCCAATTCCTAAGCGGGCCGTACCATTTTAACTTAAAAAATAATCGCGCCCGGAA CTGTCTCTTTCCCAACCATATCTTCTCATCAATGATCCTGGGGTCCCCCAACCCA TTTCCCCCGCTTTCCAGACCTTCTTCTTCCCTTCCCGGGACAATATCCGCGTCCCA TTCCCGCATCTTCCCCATTATCCTTACAAACCTCCCCCGTTTCTT</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_033285
Insert Size:	5000 bp
OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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_033285.2](#), [NP_150601.1](#)

RefSeq Size: 5587 bp

RefSeq ORF: 723 bp

Locus ID: 94241

UniProt ID: [Q96A56](#)

Cytogenetics: 8q22.1

Protein Families: Druggable Genome

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 (a).