

Product datasheet for **SC111040**

TP53BP2 (NM_005426) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TP53BP2 (NM_005426) Human Untagged Clone
Tag:	Tag Free
Symbol:	TP53BP2
Synonyms:	53BP2; ASPP2; BBP; P53BP2; PPP1R13A
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_005426, the custom clone sequence may differ by one or more nucleotides

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ATGGATCTGACTCTTGCTGAACTTCAGGAAATGGCATCTCGCCAGCAGCAACAGATTGAAGCCCAGCAAC
AATTGCTGGCAACTAAGGAACAGCGCTTAAAGTTTTTGAACAACAAGATCAGCGACAACAGCAACAAGT
TGCTGAGCAGGAGAACTTAAAAGGCTAAAAGAAATAGCTGAGAATCAGGAAGCTAAGCTAAAAAAGTG
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GCAGCTAGAGATGCTCAAGAACGGCAGGATCGACAGCCACCATGACAATCAGTCTGCAGTGGCTGAGCTT
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AGGAGACTGCATGACAATCATCCACAGGAAGACGAAGATGAAATCGAATGGTGGTGGGCGCCCTTAAT
GATAAGGAGGGATATGTTCCACGTAACCTGCTGGGACTGTACCAAGAATTAACCAAGACAAGGAGCT
TGGCCTGA
    
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_005426 unedited TAGAGTTTCATCATGTTGGCCAGGATGGTCTCGATCTCCTGACCTTGTGATCCGCCTGCC TCGGCCTCCCAAAGTGCTGGATTACAGGTGTGAGCCACCACGATCAGCCTCTAGTGTTTA AAAAAGAACGTCCAGTTGCGGATAATGAGCGAATGTTTGATGTTCTTCAACGATTTGGAA GTCAGAGGAACGAAGTTCGCTTCTTCTTCGTCATGAACGCCCCCTGGCAGGGACATTG TGAGTGGACCAAGATCTCAGGATCCAAGTTTAAAAAGAAATGGTGAAAAAGTTCCTGGTG AATATCGAAGAAAAGGAGAACGGTGTTAATAGTCCTAGGATGGATCTGACTCTTGCTGAAC TTCAGGAAATGGCATCTCGCCAGCAGCAACAGATTGAAGCCAGCAACAATTGCTGGCAA CTAAGGAACAGCGCTTAAAGTTTTTAAACAACAAGATCAGCGACAACAGCAACAAGTTG CTGAGCAGGAGAACTTAAAAGGCTAAAAGAAATAGCTGAGAATCAGGAAGCTAAGCTAA AAAAAGTGAGAGCACTTNAAGGCCACGTGGAACAGAAGAGACTAAGCATGGGGAACTTG CANAACAGAGGGAGCTCGTCTGGCTGTGTCAAAGTNAAGAACTGACCANGCAGCTAGGA TGCTCAGAACGGCNGGATCGACAGCACATGACATCANNCTGCAGGGCTGAGCTTGATCGC TCTTTAAGAGCTGCGCTAAGAACAATGATCAGACAGATGCCAGCTCACAAAAGGGAGGG TTGATAAACGATTTAAAAGGGCGCTGGTAACTTTATTACTTAGGACCGTGGGAAAAAG GACCTTCCAAAAAATATCATTT
Restriction Sites:	NotI-NotI
ACCN:	NM_005426
Insert Size:	4700 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:	<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.
RefSeq:	NM_005426.1 , NP_005417.1
RefSeq Size:	4802 bp
RefSeq ORF:	3018 bp
Locus ID:	7159
UniProt ID:	Q13625
Cytogenetics:	1q41
Domains:	SH3, ANK
Protein Families:	Druggable Genome

Gene Summary:

This gene encodes a member of the ASPP (apoptosis-stimulating protein of p53) family of p53 interacting proteins. The protein contains four ankyrin repeats and an SH3 domain involved in protein-protein interactions. It is localized to the perinuclear region of the cytoplasm, and regulates apoptosis and cell growth through interactions with other regulatory molecules including members of the p53 family. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) contains an alternate exon and uses a downstream start codon, compared to variant 1. Isoform 2, also known as 53BP2S or short, has a shorter N-terminus, compared to isoform 1. CCDS Note: This CCDS ID represents the short isoform encoded by this gene. It is also known as 53BP2S, and is described in PMIDs 8668206 and 14766226. This isoform is shorter at the N-terminus compared to the full-length isoform, also known as 53BP2L and represented by CCDS44319.1. The presence of an upstream in-frame start codon, use of which would extend the short isoform N-terminus by 62 aa, should be noted. This has a weak Kozak signal compared to a strong Kozak signal for the represented downstream start codon; the use of the downstream start codon is also supported by in vitro translation experiments in PMID:8668206.