

Product datasheet for **SC116337**

TAB1 (NM_006116) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAB1 (NM_006116) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAB1
Synonyms:	3'-Tab1; MAP3K7IP1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

Fully Sequenced ORF: >OriGene ORF within SC116337 sequence for NM_006116 edited (data generated by NextGen Sequencing)

```

ATGGCGGCGCAGAGGAGGAGCTTGTCTGCAGAGTGAGCAGCAGCCAAGCTGGACAGATGAC
CTGCCTCTCTGCCACCTCTCTGGGGTTGGCTCAGCCTCCAACCGCAGCTACTCTGCTGAT
GGCAAGGGCACTGAGAGCCACCCGCCAGAGGACAGCTGGCTCAAGTTCAGGAGTGAGAAC
AACTGCTTCTGTATGGGGTCTTCAACGGCTATGATGGCAACCGAGTGACCAACTTCGTG
GCCCAGCGGCTGTCCGCAGAGCTCCTGCTGGGCCAGCTGAATGCCGAGCACGCCGAGGCC
GATGTGCGGCGTGTGCTGCTGCAGGCCTTCGATGTGGTGGAGAGGAGCTTCTGGAGTCC
ATTGACGACGCCTTGGCTGAGAAGGCAAGCCTCCAGTCGCAATTGCCAGAGGGAGTCCCT
CAGCACCAGCTGCCTCCTCAGTATCAGAAGATCCTTGAGAGACTCAAGACGTTAGAGAGG
GAAATTTGCGGAGGGGCCATGGCCGTTGTGGCGGTCCTTCTCAACAACAAGCTCTACGTC
GCCAATGTCGGTACAACCGTGCACCTTTATGCAAATCGACAGTGGATGGGTTGCAGGTG
ACACAGCTGAACGTGGACCACACCACAGAGAACGAGGATGAGCTTTCGGTCTTTCGCAG
CTGGGCTTGGATGCTGGAAGATCAAGCAGGTGGGGATCATCTGTGGCAGGAGAGCACC
CGCGGGATCGGGATTACAAGGTTAAATATGGCTACACGGACATTGACCTTCTCAGCGCT
GCCAAGTCCAAACCAATCATCGCAGAGCCAGAAATCCATGGGGCACAGCCGCTGGATGGG
GTGACGGGCTTCTTGGTCTGATGTGCGAGGGGTTGTACAAGGCCCTAGAGGCAGCCAT
GGGCTGGGCAGGCCAACAGGAGATTGCTGCGATGATTGACACTGAGTTTGCCAAGCAG
ACCTCCCTGGACGCAGTGGCCAGGCCGTCGTGGACCGGGTGAAGCGCATCCACAGCGAC
ACCTTCGCCAGTGGTGGGGAGCGTGCCAGGTTCTGCCCGGCACGAGGACATGACCCTG
CTAGTGAGGAACCTTGGCTACCCGCTGGGCGAAATGAGCCAGCCACACCGAGCCAGCC
CCAGCTGCAGGAGGACGAGTGTACCCTGTGTCTGTGCCATACTCCAGCGCCAGAGCACC
AGCAAGACCAGCGTGCACCTCTCCCTTGTATGCCCTCCAGGGCCAGATGGTCAACGGG
GCTCACAGTGCTTCCACCCTGGACGAAGCCACCCACCCTCACCAACCAAGCCCGACC
TTAACCTGACAGTCCACCAACACGCACAGCAGCAGCAGCTCCAGCTCTGACGGAGGC
CTTTCGGCTCCCGCCCGCCACTCGCTCCCGCTGGCGAGGACGGTCTGTTGAGCC
TATGTGGACTTGTGAGTTTTACCGCCTCTGGAGCGTGGACCATGGCGAGCAGAGCGTG
GTGACAGCACCGTAG
    
```

Clone variation with respect to NM_006116.2

5' Read Nucleotide Sequence:

```

>OriGene 5' read for NM_006116 unedited
NNGGCTCCTTCCCCCGCCGTTCCCTCAAAGGGCGGTAGGCGTGTACGGTGGGAAGGTCT
ATATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTCTTTTTGCAG
CGGCCCGCAATTCGGCACGAGGGGGTTCCTCCAAGATGGCGGCGCAGAGGAGGAGCTTG
CTGCAGAGTGAGCAGCAGCCAAGCTGGACAGATGACCTGCCTCTCTGCCACCTCTCTGGG
GTTGGCTCAGCTTCAACCGCAGCTACTCTGCTGATGGCAAGGGCACTGAGAGCCACCCG
CCAGAGGACAGCTGGCTCAAGTTCAGGAGTGAGAACAACCTGCTTCTGTATGGGGTCTTC
AACGGCTATGATGGCAACCGAGTGACCAACTTCGTGGCCAGCGGCTGTCCGCAGAGCTC
CTGCTGGGCCAGCTGAATGCCGAGCACGCCGAGGCCGATGTGCGGCGTGTGCTGTCAG
GCCTTCGATGTGGTGGAGAGGAGCTTCTGGAGTCCATTGACGACGCCTTGGCTGAGAAG
GCAAGCCTCCAGTCGCAATTGCCAGAGGGAGTCCCTCAGCACCAGCTGCCTCCTCAGTAT
CAGAAGATCCTTGAGAGACTCAAGACGTTAGAGAGGGAAATTTCCGGAGGGGCCATGGCC
GTTGTGGCGGTCCTTCTCAACAACAAGCTCTACGTCGCCAATGTCCGTACAAACCGTGCA
CTTTTATGCAAATCGACAGTGGATGGGTTGCAGGTGACACAGCTGAACGTGGACCACACC
ACAGAGAACGAGGATGAGCTCTTCCGTCTTTCGACAGCTGGGCTTGGATGCTGGAAGATC
AAGCAGGTGGGGATCATCTGTGGCCAGGAGAGCACCCGCGGATCGGGGATTACAAGGT
AAATATGGCTACACG
    
```

3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_006116 unedited GCGGTATACCAAGTACGCGCCCATCTANATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTTT AATATCATAATGTGTAATGCCACCATTTATGACTTCTTTACTACATTAATAAATGACCCT GTTTCTAGAGACCAAACAGCACAGAGGCATTCTTGGAAAGAAAATTCCTTTTGTCC AAGCCTTTGTGACTGACTTTAAATCCTCTCACCTGCTTTAATAAAGATGGCTTCAAAGTG GGGGGGGGGGAGTGAGCGAGGACCCTGGGCTGAGACCTGTTTTTCTCCATTCTGCTG TGGCTTCCACAGCTCCCTGGTTCCACACCAAGCCCTGCTCTGCCGCAAGAAAATGGATT CCCAGGCCACAAAGCTGTTAGGCCTTTGACTTTGCAAAAACCAAAAACCCCAAAAGCTGG GCCACAGCGGCTAAACCCTGGTGGGCCCTCCGGGCATGGGGGGCACGGACACTGGCAG ATGGGGAGGGCGTCCAAAAACCAGGGATCTGGGAGGAGGAACAACAGGGTATACGACT AACCACGGCTGACCCCGGACCCACGGATCAACCAAAGTTCCGACTACCCCGGCCAT TACCATCAACACCGCACAGACAAACCCATCGCCCCGCAACAGACCGGGGACAACTGCG CGAACACCCCGCAGAGAAATGAGGCTGCCAAACGCCACACAGAGGAACCTCCCGGGCC CGTCCACACACCTCTTCTCCTCTCACCATCCTCACACACACACCCCCACCCAGGA CACTCCTCCACCATTATATATAAATTAACCCTCCCTATAACGATAATAATAGCGCGTC ACACCCCCCAAAATATGAAACACACCATTTAACGCACCGCCTCAATCATTGACACCC CAATAAAGACATA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_006116
Insert Size:	3500 bp
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.
RefSeq:	NM_006116.2 , NP_006107.1
RefSeq Size:	3240 bp

RefSeq ORF:	1515 bp
Locus ID:	10454
UniProt ID:	Q15750
Cytogenetics:	22q13.1
Domains:	PP2C
Protein Families:	Druggable Genome
Protein Pathways:	MAPK signaling pathway, NOD-like receptor signaling pathway, Toll-like receptor signaling pathway
Gene Summary:	<p>The protein encoded by this gene was identified as a regulator of the MAP kinase kinase kinase MAP3K7/TAK1, which is known to mediate various intracellular signaling pathways, such as those induced by TGF beta, interleukin 1, and WNT-1. This protein interacts and thus activates TAK1 kinase. It has been shown that the C-terminal portion of this protein is sufficient for binding and activation of TAK1, while a portion of the N-terminus acts as a dominant-negative inhibitor of TGF beta, suggesting that this protein may function as a mediator between TGF beta receptors and TAK1. This protein can also interact with and activate the mitogen-activated protein kinase 14 (MAPK14/p38alpha), and thus represents an alternative activation pathway, in addition to the MAPKK pathways, which contributes to the biological responses of MAPK14 to various stimuli. Alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (alpha) encodes the longer isoform (alpha).</p>