

## TAB1 cDNA

Catalog Number: ATGD0004

### PRODUCT INFORMATION

---

**Catalog number**

ATGD0004

**Product type**

cDNA

**Species**

Human

**NCBI Accession No.**

NP\_006107.1

**Alternative Names**

3'-Tab1, MAP3K7IP1

**mRNA Refseq**

NM\_006116.2

**OMIM**

602615

**Chromosome location**

22q13.1

### PRODUCT SPECIFICATION

---

**Formulation**

Lyophilized

**Storage**

Store the plasmid at -20C.

**cDNA Size**

1515bp

**Preparation before usage**

1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA. Each tube contains approximately 10ug of lyophilized plasmid.

**Vector description**

This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

**Cloning Vector**

pATGen (puc19-derived cloning vector)

**General Description**

# TAB1 cDNA

Catalog Number: ATGD0004

TAB1 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.

## DATA

### Sequence nucleotides

```

ATGGCGGCGC AGAGGAGGAG CTTGCTGCAG AGTGAGCAGC AGCCAAGCTG GACAGATGAC CTGCCTCTCT
GCCACCTCTC TGGGGTTGGC TCAGCCTCCA ACCGCAGCTA CTCTGCTGAT GGCAAGGGCA CTGAGAGCCA
CCCGCCAGAG GACAGCTGGC TCAAGTTCAG GAGTGAGAAC AACTGCTTCC TGTATGGGGT CTTCAACGGC
TATGATGGCA ACCGAGTGAC CAACTTCGTG GCCCAGCGGC TGTCCGCAGA GCTCCTGCTG GGCCAGCTGA
ATGCCGAGCA CGCCGAGGCC GATGTGCGGC GTGTGCTGCT GCAGGCCTTC GATGTGGTGG AGAGGAGCTT
CCTGGAGTCC ATTGACGACG CTTGGCTGA GAAGGCAAGC CTCCAGTCGC AATTGCCAGA GGGAGTCCCT
CAGCACCAGC TGCCTCTCA GTATCAGAAG ATCCTTGAGA GACTCAAGAC GTTAGAGAGG GAAATTTCCG
GAGGGGCCAT GGCCGTTGTG GCGGTCCTTC TCAACAACAA GCTCTACGTC GCCAATGTCG GTACAAACCG
TGCACTTTTA TGCAAATCGA CAGTGGATGG GTTGCAGGTG ACACAGCTGA ACGTGGACCA CACCACAGAG
AACGAGGATG AGCTCTTCCG TCTTTCGAG CTGGGCTTGG ATGCTGGAAA GATCAAGCAG GTGGGGATCA
TCTGTGGGCA GGAGAGCACC CGGCGGATCG GGGATTACAA GGTTAAATAT GGCTACACGG ACATTGACCT
TCTCAGCGCT GCCAAGTCCA AACCAATCAT CGCAGAGCCA GAAATCCATG GGGCACAGCC GCTGGATGGG
GTGACGGGCT TCTTGGTGCT GATGTCGGAG GGGTTGTACA AGGCCCTAGA GGCAGCCCAT GGGCCTGGGC
AGGCCAACCA GGAGATTGCT GCGATGATTG AACTGAGTT TGCCAAGCAG ACCTCCCTGG ACGCAGTGGC
CCAGGCCGTC GTGGACCGGG TGAAGCGCAT CCACAGCGAC ACCTTCGCCA GTGGTGGGGA GCGTGCCAGG
TTCTGCCCCC GGCACGAGGA CATGACCCTG CTAGTGAGGA ACTTTGGCTA CCCGCTGGGC GAAATGAGCC
AGCCCACACC GAGCCCAGCC CCAGCTGCAG GAGGACGAGT GTACCCTGTG TCTGTGCCAT ACTCCAGCGC
CCAGAGCACC AGCAAGACCA GCGTGACCCT CTCCCTTGTG ATGCCCTCCC AGGGCCAGAT GGTCACGGG
GCTCACAGTG CTTCCACCCT GGACGAAGCC ACCCCCACCC TCACCAACCA AAGCCCAGACC TTAACCCTGC
AGTCCACCAA CACGCACACG CAGAGCAGCA GCTCCAGCTC TGACGGAGGC CTCTTCCGCT CCCGGCCCCG
CCTACTCGCTC CCGCCTGGCG AGGACGGTCG TGTTGAGCCC TATGTGACT TTGCTGAGTT TTACCGCCTC
TGGAGCGTGG ACCATGGCGA GCAGAGCGTG GTGACAGCAC CGTAG
    
```

### Transaction Sequence

```

MAAQRRSLLQ SEQQPSWTD LPLCHLSGVG SASNRSYSAD GKGTESHPPE DSWLKFRSEN NCFLYGVFNG YDGNRVTNFV
AQRLSAELL LQLNAEHAEA DVRRVLLQAF DVVERSFLS IDDALAEKAS LQSQLPEGVP QHQLPPQYQK ILERLKTLE
EISGGAMAVV AVLLNNKLYV ANVGTNRALL CKSTVDGLQV TQLNVDHTE NEDELFRSLQ LGLDAGKIKQ VGIICGQEST
RRIGDYKVYK GYTDIDL LSA AKSKPIIAEP EIHGAPLDG VTGFLVLMSE GLYKALEAAH GPGQANQEIA AMIDTEFAKQ
TSLDAVAQAV VDRVKRIHSD TFASGGERAR FCPRHEDMTL LVRNFGYPLG EMSQPTPSA PAAGGRVYPV SVPYSSAQST
SKTSVTLSLV MPSQGQMVNG AHSASTLDEA TPTLTNQSP LTLQSTNHT QSSSSSSDGG LFRSRPAHSL PPGEDGRVEP
YVDAEFYRL WSDVHGEQSV VTAP
    
```