

Product datasheet for **SC111198**

TAB2 (NM_015093) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAB2 (NM_015093) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAB2
Synonyms:	CHTD2; MAP3K7IP2; TAB-2
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_015093, the custom clone sequence may differ by one or more nucleotides

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ATGCCCCAAGGAAGCCACCAAAATTGATTTTCAGGTTTTACATGACCTGCGACAAAAATCCCTGAAGTAC
CTGAAGTTGTTGTATCCAGGTGCATGTTACAGAATAATAAACCTGGATGCCTGCTGTGCTGTTCTCTC
TCAGGAGAGTACAAGATATCTTTATGGTGAAGGAGACTTGAATTTTTTCAGATGATTCTGGAATTTCTGGT
CTACGCAATCACATGACTTCTCTCAACTTGGACTTGAATCACAGAACATTTACCACCATGGAAGAGAAG
GAAGTAGGATGAATGGAAGTAGGACTCTAACGCACAGCATTAGTGATGGACAACCTCAAGGTGGCCAGTC
CAATAGTGAACATTTTCAGCAGGAGCCACAGACAGCACCAGCTCAAGTTCCTCAAGGCTTTAATGTTTTT
GGAATGTCAGTTCTCTGGTGTCTCAAATTCAGCACCACATCTTGGATTTCACTTAGGCAGCAAAGGAA
CATCTAGCCTTTCTCAACAACTCCCAGATTTAATCCCATTATGGTAACTTTAGCCCCAAATATCCAGAC
TGGTCGTAATACTCCTACATCTTGCACATACATGGTGTACCTCCACCTGTACTTAACAGTCCACAGGGA
AATTCTATCTATATTAGGCCTTACATTACAACCTCTGGTGTACAACCTCGACAGACACAACAGCATTCTG
GCTGGGTATCTCAGTTTAAATCCCATGAACCCTCAGCAAGTTTATCAGCCTTCACAGCCTGGTCCCTGGAC
TACTTGTCTGCATCTAATCCTCTGTACATACCTCATCTCAACAGCCAAATCAGCAAGGCCACCAGACC
TCTCATGTCTACATGCCAATCAGTTCACCTACTACTTCAACCACCAACCATTCAATCATCTGGTAGCT
CACAGTCTTCTGCCATAGCCAATATAACATTCAGAATATTTCAACAGGACCTCGAAAAACCAGATTGA
AATCAAACCTGAACCCCCACAAAGAAATAATTCTTCAAACCTGCGTTCTTCTGGACCTCGAACCTCCAGC
ACTTCTCTTTCAGTCAATAGCCAGACCTTAAACAGAAATCAGCCCACTGTTTACATAGCTGCCAGCCCC
CAAATACGGATGAGCTGATGTCCCGTAGTCAACCTAAGGTCTATATTTTCAGCGAATGCTGCCACAGGAGA
TGAACAGGTGATGCGGAATCAGCCACACTCTTCATATCCACAACTCTGGAGCATCTGCTGCCTCCAGG
AACATGTCTGGGCAAGTGAAGTGGGTCCTGCCTTTTATTCATCACCATCCTCCAAAAGTCGAGCAATAG
GCAATAACTCTGCAACCTCTCCTCGAGTGGTAGTCACTCAGCCCAATACGAAATACACTTTCAAATTTAC
AGTCTCTCCCAATAAGCCCCCTGCAAGTTTCACCAGGGTGGTGTCCCTACCTTTGAACTTACAATCTT
CTTAATCATCCTGATCATTATGTAGAAACCGAGAATATTCAGCACCTCACGGACCCTACATTAGCACATG
TGGATAGAATAAGTGAACACGGAACTGAGTATGGGATCTGATGATGCTGCCTACACACAAGCTTTTT
GGTACACCAGAAGGCCAGAATGGAACGACTTCAAAGAGAAGTGGAGTTCAAAGAAAAAGCTGGATAAA
TTAAAATCTGAGGTTAATGAAATGGAATAATCTAACTCGAAGGCGCTGAAAAGATCAAATCTATAT
CCCAGTACCTTCCCTTGAAGAAATGCAGCAGCTGAGAAGTTGTAATAGACAACCTCAGATTGACATTGA
CTGCTTAACCAAAGAAATTGATCTTTTTCAAGCCCGAGGACCACATTTTAAACCCAGCGCTATTCATAAC
TTTTATGACAATATTGGATTTGTAGTCTGTGCCACCAAAACCAAGATCAAAGGTCCATCATCAAAA
CACCAAAGACTCAAGACACAGAAGATGATGAGGGAGCTCAGTGAATTGTACCGCCTGTACTTTTTTGAA
CCATCCAGCCTTAATTCGCTGTGAACAGTGTGAGATGCCAAGGCATTTCTGA
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_015093 unedited
 NGGGTCGAATTTGTATACGACTCATATAGGCGGCCGCGNAATTCGCACCAGGATGGCCCA
 AGGAAGCCACCAAATTTGATTTTCAGGTTTTACATGACCTGCGACAAAAATTCCTGAAGT
 ACCTGAAGTTGTTGTATCCAGGTGCATGTTACAGAATAATAAACCTGGATGCCTGCTG
 TGCTGTTCTCTCAGGAGAGTACAAGATATCTTTATGGTGAAGGAGACTGAATTTTTCT
 AGATGATTCTGGAATTTCTGGTCTACGCAATCACATGACTTCTCTCAACTGGACTTGCA
 ATCACAGAACATTTACCACCATGGAAGAGAAGGAAGTAGGATGAATGGAAGTAGGACTCT
 AACGCACAGCATTAGTGATGGACAACCTCAAGGTGGCCAGTCCAATAGTGAATTTTCA
 GCAGGAGCCACAGACAGCACCAGCTCAAGTTCCTCAAGGCTTTAATGTTTTTGAATGTC
 CAGTTCCTCTGGTGCTTCAAATTCAGCACCACATCTTGGATTTCACTTAGGCAGCAAAGG
 AACATCTAGCCTTTCTCAACAACTCCCAGATTTAATCCCATTATGGTAACTTTAGCCCC
 AAATATCCAGACTGGTCGTAATACTCCTACATCTTGCACATACATGGTGTACCTCCACC
 TGTACTTAACAGTCCACAGGAAATTTCTATCTATATTAGGCCTTACATTACAACCTCTGG
 TGGTACAACCTCGACAGACACAACAGCATTCTGGCTGGGTATCTCAGTTTAAATCCCATGAA
 CCCTCAGCAAGTTTATCAGCCTTACAGCCTGGTCCCTGGACTACTTGCCTGCATCTAA
 TNCTCTGTACATACCTCATCTCACAGCCAATCAGCAGGGCCCCAGACCTCTCATGTCT
 ACTGC

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_015093 unedited
 NAATACTCTGNNACCGCGNCCGCATTCTAGNGATCGAGTTTTTTTTTTTTTTTTTTTTTTT
 CAAAATATCCAAATTACGTTTTTAAATAAAAACAAGTAAAACTGATTTATCAATCTTCA
 CATAAACTGCAGATGAAGCTGAAAAACAAGGCCTATTTTAAAAATAAATGCATCAAAC
 GTAAGGGCTTTGGGTCTATGGTTTAAATTACCTAGGATTGTCATATTTCTCCCATATACA
 AAATGCAAAGCCTGAAAGTTAGGGCTCTGACATTCATAGAGATCAACTGTAATAATCCCA
 TTTAAAACACAGCCACTTGCAAACATTTACAGGGGGTGGTAGTCTATATTATCTCCATC
 CTTTGGCTATTTTCAAGCACTTCCCTTAGCCCCATTCTAAGCACTCATATAATTTCAAT
 TCTGCCTTTTTAAATGCATACTGTTCTTTTTCTTGATTTCAAGTTATATACCTTCTGATC
 ATCTGAATATTTTCTTACAAAAATATTTTATCAAATAAAGAGATGCTTGAGGTTGCTT
 CCATGTTCAAGTTCGCTCGGTCTTTTTTTCACGCTTCCCTCCATCTTGTTAATACGCCA
 GCCCTTGCCCTTATAAATCCCTTTATCCTGTCCCCCCCCCTCGTTCATTATTGCCTTCCC
 TCCCCATAACTCTTAAACTTCTTCTCCATACTCCGGTCCCCTTTCTCCCTCCTTCTT
 TTCGCTCTTAACCCCGTATCTATCTATAATCCCCCGCTCCTCTTTCCCCCCTCCCATTA
 TCCACACCACATTCTATATCTTCCCCTTCCCTATCCTATTTTCCCTCCTTCTTCTTTT
 CCCTCCTTTTTTCCCCCTCCTTCTTCTTCTTCTTCTTAAATCCTTTTCTTTTCCCTC
 CCTCCTTCTTCTGTTTTCTCCCCATTTCTCGACCCTCCTCCTCCCCACCTTCTC
 CCACC

Restriction Sites:

ECoRI-NOT

ACCN:

NM_015093

Insert Size:

3670 bp

OTI Disclaimer: 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.

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](#)

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_015093.2](#), [NP_055908.1](#)

RefSeq Size: 4149 bp

RefSeq ORF: 2082 bp

Locus ID: 23118

UniProt ID: [Q9NYJ8](#)

Cytogenetics: 6q25.1

Domains: zf-RanBP, CUE

Protein Families: Druggable Genome

Protein Pathways: MAPK signaling pathway, NOD-like receptor signaling pathway, Toll-like receptor signaling pathway

Gene Summary:

The protein encoded by this gene is an activator of MAP3K7/TAK1, which is required for for the IL-1 induced activation of nuclear factor kappaB and MAPK8/JNK. This protein forms a kinase complex with TRAF6, MAP3K7 and TAB1, and it thus serves as an adaptor that links MAP3K7 and TRAF6. This protein, along with TAB1 and MAP3K7, also participates in the signal transduction induced by TNFSF11/RANKI through the activation of the receptor activator of NF-kappaB (TNFRSF11A/RANK), which may regulate the development and function of osteoclasts. Studies of the related mouse protein indicate that it functions to protect against liver damage caused by chemical stressors. Mutations in this gene cause congenital heart defects, multiple types, 2 (CHTD2). Alternative splicing results in multiple transcript variants. [provided by RefSeq, May 2014]

Transcript Variant: This variant (1) represents the longest transcript and encodes the longer isoform (a). Both variants 1 and 2 encode isoform a.