

Product datasheet for **SC337141**

TAB2 (NM_001292035) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAB2 (NM_001292035) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAB2
Synonyms:	CHTD2; MAP3K7IP2; TAB-2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >SC337141 representing NM_001292035.
 Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTGCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGGATCGCC
ATGCAGAATAATAAACCTGGATGCCTGCTGTGCTGTTCTCTCTCAGGAGAGTACAAGATATCTTTAT
GGTGAAGGAGACTTGAATTTTTTCAGATGATTCTGGAATTTCTGGTCTACGCAATCACATGACTTCTCTC
AACTTGGACTTGAATCACAGAACATTTACCACCATGGAAGAGAAGGAAGTAGGATGAATGGAAGTAGG
ACTCTAACGCACAGCATTAGTGATGGACAACCTCAAGGTGGCCAGTCCAATAGTGAATATTTTCAGCAG
GAGCCACAGACAGCACCAGCTCAAGTTCCTCAAGGCTTTAATGTTTTTGGAAATGCCAGTTCCTCTGGT
GCTTCAAATTCAGCACCACATCTTGATTTCACTTAGGCAGCAAAGGAACATCTAGCCTTTCTCAACAA
ACTCCCAGATTTAATCCCATTATGGTAACTTTAGCCCCAAATATCCAGACTGGTCTGTAATACTCTACA
TCTTTGCACATACATGGTGTACCTCCACCTGTACTTAACAGTCCACAGGGAAATTTCTATCTATATTAGG
CCTTACATTAAACTCCTGGTGGTACAACCTCGACAGACACAACAGCATTCTGGCTGGGTATCTCAGTTT
AATCCCATGAACCCTCAGCAAGTTTATCAGCCTTCACAGCCTGGTCCCTGGACTACTTGCCTGCATCT
AATCCTCTGTACATACCTCATCTCAACAGCCAATCAGCAAGGCCACCAGACCTCTCATGTCTACATG
CCAATCAGTTCACCTACTACTTCAACACCAACCATTTCATCTGGTAGCTCACAGTCTTCTGCC
CATAGCCAATATAACATTAGAATATTTCAACAGGACCTCGAAAAACCAGATTGAAATCAAACCTTGAA
CCCCACAAAGAAATAATTCTTCAAACCTGCGTTCTTCTGGACCTCGAACCTCCAGCACTTCTCTTCA
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TGCTTAACCAAAGAAATGATCTTTTTCAAGCCCGAGGACCACATTTAAACCCAGCGCTATTTCATAAC
TTTTATGACAATATTGGATTTGTAGTCCCTGTGCCACCAAAACCAAAGATCAAAGGTCCATCATCAA
ACACCAAAGACTCAAGACACAGAAGATGATGAGGGAGCTCAGTGGAAATGTACCGCTGTACTTTTTTG
AACCATCCAGCCTTAATTCGCTGTGAACAGTGTGAGATGCCAAGGCATTTCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
  
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Restriction Sites: SgfI-MluI

ACCN: NM_001292035

Insert Size: 1986 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_001292035.2](#)

RefSeq Size: 4206 bp

RefSeq ORF: 1986 bp

Locus ID: 23118

UniProt ID: [Q9NYJ8](#)

Cytogenetics: 6q25.1

Protein Families: Druggable Genome

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

MW: 72.8 kDa

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 (4) contains an alternate 5' exon structure, and it thus differs in the 5' UTR and initiates translation at an alternate start codon, compared to variant 1. The encoded isoform (b) has a distinct N-terminus and is shorter than isoform a.