

Product datasheet for **SC337216**

TAB2 (NM_001292034) Human Untagged Clone

Product data:

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| Product Type: | Expression Plasmids |
| Product Name: | TAB2 (NM_001292034) 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: >NCBI ORF sequence for NM_001292034, the custom clone sequence may differ by one or more nucleotides

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ATGGCCCAAGGAAGCCACCAAAATTGATTTTCAGGTTTTACATGACCTGCGACAAAAATCCCTGAAGTAC
CTGAAGTTGTTGTATCCAGGTGCATGTTACAGAATAATAATAACCTGGATGCCTGCTGTGCTGTTCTCTC
TCAGGAGAGTACAAGATATCTTTATGGTGAAGGAGACTTGAATTTTTTCAGATGATTCTGGAAATTTCTGGT
CTACGCAATCACATGACTTCTCTCAACTTGGACTTGAATCACAGAACATTTACCACCATGGAAGAGAAG
GAAGTAGGATGAATGGAAGTAGGACTCTAACGCACAGCATTAGTGATGGACAACCTCAAGGTGGCCAGTC
CAATAGTGAACTATTTTCAGCAGGAGCCACAGACAGCACCAGCTCAAGTTCCTCAAGGCTTTAATGTTTTT
GGAATGTCAGTTCTCTGGTGTTCAAAATTCAGCACCACATCTGGATTTCACTTAGGCAGCAAAGGAA
CATCTAGCCTTTCTCAACAACTCCAGATTTAATCCCATTATGGTAACTTTAGCCCAAATATCCAGAC
TGGTCGTAATACTCCTACATCTTGCACATACATGGTGTACCTCCACCTGTACTAACAGTCCACAGGGA
AATTCTATCTATATTAGCCTTACATTACAACCTCTGGTGTACAACCTCGACAGACACAACAGCATTCTG
GCTGGGTATCTCAGTTTAAATCCCATGAACCCTCAGCAAGTTTATCAGCCTTCACAGCCTGGTCCCTGGAC
TACTTGTCTGCATCTAATCCTCTGTACATACCTCATCTCAACAGCCAAATCAGCAAGGCCACAGACC
TCTCATGTCTACATGCCAATCAGTTCACCTACTACTTCAACCACCAACCATTCAATCATCTGGTAGCT
CACAGTCTTCTGCCATAGCCAATATAACATTCAGAATATTTCAACAGGACCTCGAAAAACCAGATTGA
AATCAAACCTGAACCCCAAAAGAAAATAATCTTCAAACCTGCGTTCTTCTGGACCTCGAACCTCCAGC
ACTTCTCTTTCAGTCAATAGCCAGACCTTAAACAGAAATCAGCCCACTGTTTACATAGCTGCCAGCCCC
CAAATACGGATGAGCTGATGTCCCGTAGTCAACCTAAGGTCTATATTTACGCGAATGCTGCCACAGGAGA
TGAACAGGTGATGCGGAATCAGCCACACTCTTCATATCCACAACTCTGGAGCATCTGCTGCCTCCAGG
AACATGTCTGGCAAGTGAAGTGGTCTGCTTTTATCATCACCATCTCCAAAAGTCGAGCAATAG
GCAATAACTCTGCAACCTCTCTCGAGTGGTAGTCACTCAGCCCAATACGAAATACACTTTCAAATTTAC
AGTCTCTCCCAATAAGCCCTGCAAGTTTACCAGGGTGGTGTCCCTACCTTTGAACTTACAATCTT
CTTAATCATCCTGATCATTATGTAGAAACCGAGAATATTCAGCACCTCACGGACCCTACATTAGCACATG
TGGATAGAATAAGTGAACACGGAACTGAGTATGGGATCTGATGATGCTGCCTACACACAAGCTTTTT
GGTACACCAGAAGGCCAGAATGGAACGACTTCAAAGAGAAGTGGAGTTCAAAGAAAAAGCTGGATAAA
TAAAAATCTGAGGTTAATGAAATGGAATAATCTAACTCGAAGGCGCTGAAAAGATCAAATCTATAT
CCCAGATACCTTCCCTTGAAGAAATGCAGCAGCTGAGAAGTTGTAATAGACAACCTCAGATTGACATTGA
CTGCTTAACCAAAGAAATTGATCTTTTTCAAGCCGAGGACCACATTTTAAACCCAGCGCTATTCATAAC
TTTTATGACAATATTGGATTTGTAGTCTGTGCCACCAAAACCAAGATCAAAGGTCCATCATCAAAA
CACCAAAGACTCAAGACACAGAAGATGATGAGGGAGCTCAGTGAATTGTACCGCCTGTACTTTTTTGAA
CCATCCAGCCTTAATTCGCTGTGAACAGTGTGAGATGCCAAGGCATTTCTGA
    
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Restriction Sites: SgfI-MluI

ACCN: NM_001292034

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_001292034.2](#), [NP_001278963.1](#)

RefSeq Size: 4171 bp

RefSeq ORF: 2082 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

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 (3) differs in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same isoform (a).