

Product datasheet for **SC118119**

TAK1 (MAP3K7) (NM_003188) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAK1 (MAP3K7) (NM_003188) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAK1
Synonyms:	CSCF; FMD2; MEKK7; TAK1; TGF1a
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_003188 edited
 ATGTCTACAGCCTCTGCCGCTCCTCCTCCTCGTCTTCGGCCGGTGAGATGATCGAA
 GCCCCTTCCCAGGTCCTCAACTTTGAAGAGATCGACTACAAGGAGATCGAGGTGGAAGAG
 GTTGTGGAAAGAGGAGCCTTTGGAGTTGTTGCAAAGCTAAGTGGAGAGCAAAAGATGTT
 GCTATTAACAAATAGAAAGTGAATCTGAGAGGAAAGCGTTTATTGTAGAGCTTCGGCAG
 TTATCCCGTGTGAACCATCTAATATTGTAAAGCTTTATGGAGCCTGCTTGAATCCAGTG
 TGCTTTGTGATGGAATATGCTGAAGGGGGCTCTTATATAATGTGCTGCATGGTGTGAA
 CCATTGCCATATTATACTGCTGCCACGCAATGAGTTGGTGTTCACAGTGTCCCAAGGA
 GTGGCTTATCTTACAGCATGCAACCCAAAGCGTAATTCACAGGGACCTGAAACCACCA
 AACTTACTGCTGGTTGCAGGGGGGACAGTTCTAAAAATTTGTGATTTTGGTACAGCCTGT
 GACATTACAGACACATGACCAATAACAAGGGGAGTGTGCTTGGATGGCACCTGAAGTT
 TTTGAAGTAGTAATTACAGTGAATAATGTGACGCTTTCAGCTGGGGTATTATTCTTTGG
 GAAGTGATAACCGCTCGGAAACCCTTTGATGAGATTGGTGGCCAGCTTCCGAATCATG
 TGGGCTGTTCATAATGGTACTCGACCACCTGATAAAAAATTTACCTAAGCCCATTGAG
 AGCCTGATGACTGTTGTTGGTCTAAAGATCCTTCCAGGCGCCCTCAATGGAGGAAATT
 GTGAAAAAATGACTCACTTGTGCGGTACTTCCAGGAGCAGATGAGCCATTACAGTAT
 CCTTGTCAGTATTCAGATGAAGGACAGCAACTCTGCCACCAAGTACAGGCTCATTTCATG
 GACATTGCTTCTACAAATACGAGTAACAAAAGTGACACTAATATGGAGCAAGTTCCTGCC
 ACAAAATGATACTATTAAGCGCTTAGAATCAAAAATGTTGAAAAATCAGGCAAAAGCAACAG
 AGTGAATCTGGACGTTTAAAGCTTGGGAGCCTCCCGTGGGAGCAGTGTGGAGAGCTTGCC
 CCAACCTCTGAGGGCAAGAGGATGAGTGTGACATGTCTGAAATAGAAGCTAGGATCGCC
 GCAACCCACAGGCAACGGACAGCAAGACGTAGATCCATCCAAGACTTACTGTAAGTGA
 ACAGAACCTGGTCAGGTGAGCAGTAGGTATCCAGTCCAGTGTGAGAATGATTACTACC
 TCAGGACCAACCTCAGAAAAGCCAACTCGAAGTATCCATGGACCCTGATGATCCACA
 GATACCAATGGATCAGATAAATCCATCCCAATGGCTTATCTTACTGATCACCAACTA
 CAGCCTCTAGCACCGTGCCCAAATCCAAAGAATCTATGGCAGTGTGTAACAGCATTGT
 AAAATGGCACAAGAATATATGAAAGTTCAAACAGAAAATTCATTGTTATTACAGAGAAAG
 CAAGAAGTAGTTGCAGAACTGGACCAGGATGAAAAGGACCAGCAAAATACATCTCGCCTG
 GTACAGGAACATAAAAAGCTTTTAGATGAAAACAAAAGCCTTTCTACTTACTACCAGCAA
 TGCAAAAAACAACCTAGAGGTCATCAGAAGTCAGCAGCAGAAAACGACAAGGCATTCATGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_003188 unedited
 CCCGGTCAGATTTGTATACGACTCATATAGGCGGCCGNAATCGGCACGAGGGCTGGAG
 CCAGAAGCCGGACACGGCTGTGGCCGCTGCCTCTACCCCGCCACGGATCGCCGGGTAGT
 AGGACTGCGCGGCTCCAGGCTGAGGGTCCGTCCGGAGGCGGGTGGGCGCGGGTCTACCC
 GGATTGTCGGGTGGCACCGTTCCTCCGCCCCACCGGCGCCGAGGGATCATGTCTACA
 GCCTCTGCCGCTCCTCCTCCTCCTCCTCCTCGTCTTCGGCCGGTGAGATGATCGAAGCCCCTCC
 CAGGTCTCAACTTTGAAGAGATCGACTACAAGGAGATCGAGGTGGAAGAGGTTGTTGGA
 AGAGGAGCCTTTGGAGTTGTTTCAAAGCTAAGTGGAGAGCAAAAGATGTTGCTATTA
 CAAATAGAAAGTGAATCTGAGAGGAAAGCGTTTATTGTAGAGCTTCGGCAGTTATCCCGT
 GTGAACCATCCTAATATTGTAAGCTTTATGGAGCCTGCTTGAATCCAGTGTGCTTGTG
 ATGGAATATGCTGAAGGGGGCTCTTATATAATGTGCTGCATGGTGTGTAACCATGCCA
 TATTATACTGCTGCCACGCAATGAGTTGGTGTTCACAGTGTCCCAAGGAGTGGCTTAT
 CTTACAGCATGCAACCCAGAGCGTAATTCACAGGGACCTGAAACCACCAAACTTACTG
 CTGGTTGCAGNGGGACAGTTCTAAAAATTTGTGATTTTGGTACAGCCTGTGACATTCAG
 ACACACATGACCAATACCAGGGGAGTGTGCTTGGATGGCACCTGAGTTTTTGAGGTAG
 TATTACAGTGAATAATGTGACGCTTTCAGCTGGGTATTATTCTTTGGGAGTGG

3' Read Nucleotide Sequence:	>OriGene 3' read for NM_003188 unedited CCGCGGGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTTTCATGTTCTTTTGCCTT TTAATTTTCATTTAAGAGATTAATATTAGAGTCATAAAAGCTTTACAGTTTCAACACACAT ACACACAATCACAGAATTAATAATCTTTACTCCTTAAAAAATGAGTTCCATTTTGT TCAATGTATCACAAATCAAATTTTAGTCTAACAAAATCCGGTAAACTGCTTTCATTAAT AGAGCAGCTGCCACTTACCTTTACATATTTTACGGATGGAAGTTCAGTACTGATCC AAGGATGCTGGCATCAAAGCCCTTACACGGAATATCCCTAAAGGTTCCGTATTTCCGTA ATATACCACCAATCACTCTAAATTTATAATACCCTGTCTTTAACTTGGTATATACCATCT TTTGGGAAAAAATTATTAATTTTTGAGATGAGATACAAGAATAAAGTCATTCTTGAGG TTCCACCTCTAATATGAAAAATGGACGCTGTTTGACATAGCAGCTAGTTTGATACCTC CTGTTCTGTTAGGCTAGCCTTACACAATGAGCATGCATATACAGCCACAGTTCACTGCA TCTGTTTTGAAGTTGCAAAGTGCTGCTCATTCAAGTCACAGATGCTACCATGTTATGCAA TGAAACAGTAAAATTGTATGTCCACCATGAGAAAAGGAAAATAACAATGAAAAAATGCC GCAAAATATAGGGCAGTGGCATTGAGAACCGCCAAAACCTAACACTCATGAATCGGCAT TAAAGGCTTTTCTTTCCCTTAAAAAAGTCTTTTCTTTGCATATCAAATTTAACCGTC CCCGAGAATCATGAGTGGCTGCGGTTCTGCTGCTGACTTTGGAGACCTCTATTGTTTT TGCATGGCGGAAAAAAGAAAAAGCTTTTGTTCATCTAAGCCTTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_003188
Insert Size:	2840 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:	<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:	<u>NM_003188.2</u> , <u>NP_003179.1</u>
RefSeq Size:	2912 bp
RefSeq ORF:	1740 bp
Locus ID:	6885
UniProt ID:	<u>O43318</u>
Cytogenetics:	6q15
Domains:	pkinese, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase

Protein Pathways:	Adherens junction, MAPK signaling pathway, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Wnt signaling pathway
Gene Summary:	<p>The protein encoded by this gene is a member of the serine/threonine protein kinase family. This kinase mediates the signaling transduction induced by TGF beta and morphogenetic protein (BMP), and controls a variety of cell functions including transcription regulation and apoptosis. In response to IL-1, this protein forms a kinase complex including TRAF6, MAP3K7P1/TAB1 and MAP3K7P2/TAB2; this complex is required for the activation of nuclear factor kappa B. This kinase can also activate MAPK8/JNK, MAP2K4/MKK4, and thus plays a role in the cell response to environmental stresses. Four alternatively spliced transcript variants encoding distinct isoforms have been reported. [provided by RefSeq, Jul 2008]</p> <p>Transcript Variant: This variant (A) lacks an in-frame coding segment, compared to variant B. The resulting isoform (A) lacks an internal region, as compared to isoform B. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>