

Product datasheet for **SC100191**

TAK1 (MAP3K7) (NM_145331) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAK1 (MAP3K7) (NM_145331) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAK1
Synonyms:	CSCF; FMD2; MEKK7; TAK1; TGF1a
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL6</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF sequence for NM_145331 edited
 ATGTCTACAGCCTCTGCCGCTCCTCCTCCTCGTCTTCGGCCGGTGAGATGATCGAA
 GCCCCTTCCCAGGTCTCAACTTTGAAGAGATCGACTACAAGGAGATCGAGGTGGAAGAG
 GTTGTGGAAAGAGGAGCCTTTGGAGTTGTTGCAAAGCTAAGTGGAGAGCAAAAGATGTT
 GCTATTAACAATAAGAAAGTGAATCTGAGAGGAAAGCGTTTATTGTAGAGCTTCGGCAG
 TTATCCCGTGTGAACCATCTAATATTGTAAAGCTTTATGGAGCCTGCTTGAATCCAGTG
 TGTCTTGTGATGGAATATGCTGAAGGGGGCTCTTATATAATGTGCTGCATGGTGTGAA
 CCATTGCCATATTATACTGCTGCCACGCAATGAGTTGGTGTTCACAGTGTCCCAAGGA
 GTGGCTTATCTTACAGCATGCAACCCAAAGCGTAATTCACAGGGACCTGAAACCACCA
 AACTTACTGCTGGTTGCAGGGGGGACAGTTCTAAAAATTTGTGATTTTGGTACAGCCTGT
 GACATTACAGACACATGACCAATAACAAGGGGAGTGTGCTTGGATGGCACCTGAAGTT
 TTTGAAGTAGTAATTACAGTGAATAATGTGACGCTTTCAGCTGGGGTATTATTCTTTGG
 GAAGTGATAACCGCTCGGAAACCCTTTGATGAGATTGGTGGCCAGCTTCCGAATCATG
 TGGGCTGTTCATAATGGTACTCGACCACCCTGATAAAAAATTTACCTAAGCCCATTGAG
 AGCCTGATGACTCGTTGTTGGTCTAAAGATCCTTCCAGCGCCCTCAATGGAGGAAATT
 GTGAAAATAATGACTCACTTGTGCGGTACTTCCAGGAGCAGATGAGCCATTACAGTAT
 CCTTGTGAGTATTCAGATGAAGGACAGCAACTCTGCCACCAGTACAGGCTCATTTCATG
 GACATTGCTTCTACAAATACGAGTAACAAAAGTGACACTAATATGGAGCAAGTTCCTGCC
 ACAATGATACTATTAAGCGCTTAGAATCAAAATTTGTTGAAAAATCAGGCAAGCAACAG
 AGTGAATCTGGACGTTTAAAGCTTGGGAGCCTCCCGTGGGAGCAGTGTGGAGAGCTTGCC
 CCAACCTCTGAGGGCAAGAGGATGAGTGTGACATGTCTGAAATAGAAGCTAGGATCGCC
 GCAACCACAGCCTATCCAAAGCCTAAACGGGGCCACCCTAAAAGTCTTCATTTGGCAAC
 ATTCTGGATGCTCCTGAGATCGTATATCAGGCAACGGACAGCCAAAGACGTAGATCCATC
 CAAGACTTGACTGTAACGGAAACAGAACCTGGTCAAGGTGAGCAGTAGGTATCCAGTCCC
 AGTGTGAGAATGATTACTACCTCAGGACCAACCTCAGAAAAGCCAACTCGAAGTCATCCA
 TGGACCCCTGATGATTCCACAGATACCAATGGATCAGATAAATCCATCCCAATGGCTTAT
 CTTACACTGGATCACCAACTACAGCCTCTAGCACCGTGCCTCAAACTCCAAAGAATCTATG
 GCAGTGTGTTGAACAGCATTGTAATAATGGCACAAGAATATATGAAAGTTCAAACAGAAAT
 GCATTGTTATTACAGAGAAAGCAAGAAGTGTGCAGAACTGGACCAGGATGAAAAGGAC
 CAGCAAAATACATCTCGCCTGGTACAGGAACATAAAAAAGCTTTTATAGTAAAAACAAAGC
 CTTTCTACTTACTACCAGCAATGCAAAAAACAAGTGTGATGAGGTCATCAGAAGTCAGCAGCAG
 AAACGACAAGGCCTTCATGA

5' Read Nucleotide Sequence: >OriGene 5' read for NM_145331 unedited
 GGGGGNGNGGGGGNNNNNNNNNTTTTNNNNNNTTTTTTTCCCCGCCGNTGNCGA
 TTGGGCGGTAGGCGTGTACGGTGGGNAGTCTATATAAGCAGAGCTCATTTAGGTGACACT
 ATAGAATACAAGTACTTGTCTTTTTCAGCGCCGCGAATTCGACACGAGGCCAGAGC
 CGGACACGGCTGTGGCCGCTGCCTCTACCCCGCCACGGATCGCCGGGTAGTAGGACTGC
 GCGGCTCCAGGCTGAGGGTCCGGTCCGGAGGCGGGTGGGCGGGTCTCACCCGATTGTC
 CGGGTGGCACCGTTCCCGGCCACCAGGCGCCGCGAGGGATCATGTCTACAGCCTCTGC
 CGCCTCCTCCTCCTCGTCTTCGGCCGGTGTGATGATCGAAGCCCTTCCAGGTCT
 CAACTTTGAAGAGATCGACTACAAGGAGATCGAGGTGGAAGAGTTGTTGGAAGAGGAGC
 CTTTGGAGTTGTTGCAAAGCTAAGTGGAGAGCAAAAGATGTTGCTATTAACAATAAGAA
 AAGTGAATCTGAGAGGAAAGCGTTTATTGTAGAGCTTCGGCAGTTATCCCGTGTGAACCA
 TCCTAATATTGTAAGCTTTATGGAGCCTGCTTGAATCCAGTGTGTCTTGTGATGGAATA
 TGCTGAAGGGGGCTCTTATATAATGTGCTGCATGGTGTGAACCATTGCCATATTATAC
 TGCTGCCACGCAATNGAGTTGGTGTTCACAGTGTTCCTCAAGGAGTGGCTTATCTTACA
 GCATGCAACCCANAGCGCTAATTCACAGGGACCTGAAACCACCAAACCTTACTGCTGGNTG
 CAGGGNNGGACAGTTCTAANAATTGTGATTNTGGTACAGCCTGTGACATTCAGACCACAT
 GACCATACAAAGGGGAGTGTGCTGCTGGATGCACCTGNAAGTTTTGAAGG

Restriction Sites: NotI-NotI

ACCN:	NM_145331
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:	NM_145331.1 , NP_663304.1
RefSeq Size:	2850 bp
RefSeq ORF:	1821 bp
Locus ID:	6885
UniProt ID:	O43318
Cytogenetics:	6q15
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 (B) encodes the longest 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>