

Product datasheet for **SC126713**

TAK1 (MAP3K7) (NM_145333) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TAK1 (MAP3K7) (NM_145333) Human Untagged Clone
Tag:	Tag Free
Symbol:	TAK1
Synonyms:	CSCF; FMD2; MEKK7; TAK1; TGF1a
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126713 sequence for NM_145333 edited (data generated by NextGen Sequencing)

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ATGTCTACAGCCTCTGCCGCTCCTCCTCCTCCTCGTCTTCGGCCGGTGAGATGATCGAA
GCCCTTCCCAGGTCCTCAACTTTGAAGAGATCGACTACAAGGAGATCGAGGTGGAAGAG
GTTGTTGGAAGAGGAGCCTTTGGAGTTGTTTCAAAGCTAAGTGGAGAGCAAAAGATGTT
GCTATTAACAAAATAGAAAGTGAATCTGAGAGGAAAGCGTTTATTGTAGAGCTTCGGCAG
TTATCCCCTGTGAACCATCCTAATATTGTAAGCTTTATGGAGCCTGCTTGAATCCAGT
TGCTTTGTGATGGAATATGCTGAAGGGGCTCTTTATATAATGTGCTGCATGGTGTGAA
CCATTGCCATATTATACTGCTGCCACGCAATGAGTTGGTGTTCACAGTGTTCACAAAGGA
GTGGCTTATCTTACAGCATGCAACCCAAAGCGCTAATTCACAGGGACCTGAAACCACCA
AACTTACTGCTGGTTGCAGGGGGACAGTTCTAAAAATTTGTGATTTTGGTACAGCCTGT
GACATTACAGACACATGACCAATAACAAGGGGAGTGCTGCTTGGATGGCACCTGAAGTT
TTTGAAGTAGTAATTACAGTAAAAATGTGACGCTTTCAGCTGGGGTATTATTCTTTGG
GAAGTGATAACCGCTCGGAAACCCTTTGATGAGATTGGTGGCCAGCTTCCGAATCATG
TGGGCTGTTTCATAATGGTACTCGACCACCTGATAAAAAATTTACCTAAGCCCATTGAG
AGCCTGATGACTCGTTGTTGGTCTAAAGATCCTTCCCAGCGCCCTCAATGGAGGAAATT
GTGAAAAAATGACTCACTTGTGCGGTAATTTCCAGGAGCAGATGAGCCATTACAGTAT
CCTTGTGAGTATTCAGATGAAGGACAGAGCAACTCTGCCACCACTACAGGCTCATTATG
GACATTGCTTCTACAAATACGAGTAACAAAAGTGACACTAATATGGAGCAAGTTCCTGCC
ACAAATGATACTATTAAGCGCTTAGAATCAAAATGTTGAAAAATCAGGCAAAGCAACAG
AGTGAATCTGGACGTTTAAAGCTTGGGAGCCTCCCGTGGGAGCAGTGTGGAGAGCTTGCC
CCAACCTCTGAGGGCAAGAGGATGAGTGTGACATGTCTGAAATAGAAGCTAGGATCGCC
GCAACCACAGGCAACGGACAGCCAAGACGTAGATCCATCCAAGACTTGACTGTAAGTGG
ACAGAACCTGGTCAGGTGAGCAGTAGGTATCCAGTCCCAGTGTGAGAATGATTACTACC
TCAGGACCAACCTCAGAAAAGCCAACTCGAAGTATCCATGGACCCTGATGATTCCACA
GATACCAATGGATCAGATAAATCCATCCCAATGGCTTATCTTACACTGGATCACCACCTA
CAGGCAAGAACTAGTTGCAGAACTGGACCAGGATGA
    
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Clone variation with respect to NM_145333.1

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145333 unedited

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CGCGCGGAATTCGGCACGAGCGGACACGGCTGTGGCCGCTGCCTCTACCCCGCCACGG
ATCGCCGGGTAGTAGGACTGCGCGGCTCCAGGCTGAGGGTCCGGTCCGGAGGCGGGTGGG
GCGGGTCTACCCGGATTGTCCGGGTGGCACCGTTCCCGGCCACCGGGCGCCGCGAGG
GATCATGTCTACAGCCTCTGCCGCTCCTCCTCCTCGTCTTCGGCCGGTGAGATGAT
CGAAGCCCCTTCCCAGGTCCTCAACTTTGAAGAGATCGACTACAAGGAGATCGAGGTGGA
AGAGGTTGTTGGAAGAGGAGCCTTTGGAGTTGTTTCAAAGCTAAGTGGAGAGCAAAAGA
TGTTGCTATTAACAAAATAGAAAGTGAATCTGAGAGGAAAGCGTTTATTGTAGAGCTTTG
GCAGTTATCCCGGTGAACCATCCTAATATTGTACAGCCCTTGCAGCCTGTTACCCCCC
CGCGCCCTGTGATCGGATACGCCGACCGCGCTCTTTAATAATGCGCTGAATGAAGCTC
CCCTTCTCCTTATTCACCGACCTTCACTTTTGTCTCGCCTCCATTATCGTTCTAACTC
TGTCTCCACCCCTCCCTCCCAACCACTACAACCGCCCTCCCGCCTCC
CTTTTTCCCTTCTCCGCCCTCCCATCACTCCTACTATTTTCATCCTTATCACCC
CCCCTCTT
    
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Restriction Sites: NotI-NotI
ACCN: NM_145333
Insert Size: 1920 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:	NM_145333.1 , NP_663306.1
RefSeq Size:	2796 bp
RefSeq ORF:	1476 bp
Locus ID:	6885
UniProt ID:	O43318
Cytogenetics:	6q15
Domains:	pkinase, 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 (D) lacks two segments, one of which leads to a frameshift, compared to variant C. The resulting isoform (C) lacks an internal region, and contains a distinct and shorter C-terminus, 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>