

Product datasheet for **SC111251**

TBK1 (NM_013254) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	TBK1 (NM_013254) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBK1
Synonyms:	FTDALS4; IIAE8; NAK; T2K
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_013254 edited
ATGCAGAGCACTTCTAATCATCTGTGGCTTTTATCTGATATTTTAGGCCAAGGAGCTACT
GCAAAATGTCTTTCGTGGAAGACATAAGAAAACCTGGTGATTTATTTGCTATCAAAGTATTT
AATAACATAAGCTTCCTTCGTCCAGTGGATGTTCAAATGAGAGAATTTGAAGTGTGAAA
AAACTCAATCACAAAAATATTGTCAAATTTTGTCTATTGAAGAGGAGACAACAACAAGA
CATAAAAGTACTTATTATGGAATTTTGTCCATGTGGGAGTTTATACACTGTTTTAGAAGAA
CCTTCTAATGCCATGGACTACCGAATCTGAATCTTAATTGTTTTGCGAGATGTGGTG
GGTGGAATGAATCATCTACGAGAGAATGGTATAGTGCACCGTGATATCAAGCCAGGAAAT
ATCATGCGTGTTATAGGGGAAGATGGACAGTCTGTGTACAAACTCACAGATTTTGGTGCA
GCTAGAGAATTAGAAGATGATGAGCAGTTTGTCTCTGTATGGCACAGAAGAATATTTG
CACCTGATATGTATGAGAGAGCAGTGCTAAGAAAAGATCATCAGAAGAAATATGGAGCA
ACAGTTGATCTTTGGAGCATTGGGGTAACATTTTACCATGCAGCTACTGGATCACTGCCA
TTTAGACCCTTTGAAGGGCCTCGTAGGAATAAAGAAGTGTATAAAATAATTACAGGA
AAGCCTTCTGGTGAATATCTGGAGTACAGAAAGCAGAAAATGGACCAATTGACTGGAGT
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CTTGCAAAACATCCTTGAAGCAGATCAGGAAAAGTGTGGGGTTTTGACCAGTTTTTTCGA
GAAACTAGTGATATACTTACCAGAAATGGTAATTCATGTTTTTTCGCTACAACAAATGACA
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TTAGAACCTGGAAGGCTGGCACAAACATTTCCCTAAAACACTACTGAGGAAAACCCATATTT
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GTTGTGTGTTATGCCTGCAGAATTGCCAGTACCTTACTGCTTTATCAGGAATTAATGCGA
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GATATCGACAGCAGATTATCTCCAGGTGGATCACTGGCAGACGCATGGGCACATCAAGAA
GGCACTCATCCGAAAGACAGAAATGTAGAAAAACTACAAGTCTGTAAATTCATGACA
GAGATTTACTATCAGTTCAAAAAAGACAAAGCAGAACGTAGATTAGCTTATAATGAAGAA
CAAATCCACAAATTTGATAAGCAAAAACGTATTACCATGCCACAAAAGCTATGACGCAC
TTTACAGATGAATGTGTTAAAAAGTATGAGGCATTTTTGAATAAGTCAGAAGAATGGATA
AGAAAGATGCTTCATCTTAGGAAACAGTATTATTCGCTGACTAATCAGTGTGTTGATATT
GAAGAAGAAGTATCAAAATATCAAGAATATACTAATGAGTTACAAGAACTCTGCCTCAG
AAAATGTTTACAGCTTCCAGTGGAAATCAAACATACCATGACCCCAATTTTCCAAGTTCT
AACACATTAGTAGAAATGACTCTTGGTATGAAGAAATTAAGGAAGAGATGGAAGGGGTG
GTTAAAGAACTTGCTGAAAATAACCACATTTTGAAGGTTTTGGCTCTTTAACCATGGAT
GGTGGCCTTCGCAACGTTGACTGTCTTTAG
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5' Read Nucleotide Sequence:	>OriGene 5' read for NM_013254 unedited ATTTTGTAAACGACTCACTTATAGGGCGGCCGGAATTCGCACGAGGCCTCGTGCCGAA TTCGGCACGAGGCCCGCCGGCGGTGGCGCGGGAGACCCGGCTGGTATAACAAGAGGAT TGCCTGATCCAGCCAAGATGCAGAGCACTTCTAATCATCTGTGGCTTTTATCTGATATTT TAGGCCAAGGAGCTACTGCAAAATGTCTTTCGTGGAAGACATAAGAAAACTGGTGATTTAT TTGCTATCAAAGTATTTAATAACATAAGCTTCTTCGTCCAGTGGATGTTCAAATGAGAG AATTTGAAGTGTTGAAAAAACAATCACAAAAATATTGTCAAATATTGCTATTGAAAG AGGAGACAACAACAAGACATAAAGTACTTATTATGGAATTTTGTCCATGTGGGAGTTTAT ACACTGTTTTAGAGAACCCTTCTAATGCCTATGGACTACCAAGTCTGAATTCCTAATTG TTTTGCGAGATGTGGTGGTGAATGAATCATCTACGAGAGAATGGTATAGCGCACCGTG ATATCAAGCCAGGAAATATCATGCGTGTATAGGGGAAGATGGACAGTCTGTGTACAAAC TCACAGATTTTGGTGCAGCTAGAGAATTACAAGATGATGAGCAGTTTGTCTCTGTATG GCACAGAAGAATATTTGCACCCTGATATGTATGAGAGAGCAGTGCTAAGAAAGATCATCA GAAGAATATGGAGCACCAGTTGATCTTTGGAGCATTGGGGTAACATTTTACCATGCAGCT ACTGCATCACTGCCATTTACACCCTTTGGAGGGCCTCGTAGGAATAAAGAAGTGATGTTT AAAATATTTACAGAAAAGCCCTTTGGTGCAAAATCTGAAGACCAGAAGCATAAT
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_013254 unedited CCGGCCGCAATCTAGGATCGAGTTTTTTTTTTTTTTTTTTTTTTTCTTTACATTAATAATGAGAA ATTTATTTTTTCCATGAAATAGTAAGCAGAATTAAGAAATATACAGCTTAAAACAGTT GAAATGACCTTAGAATTTAATGACAATTACACATTTATGGCCAAAGGAAAAAATGAAT AGTTTTTAATAATGAATCACTTTAAAAATGTTTGCTTAATAATTCATCTGAAATTACATG GATACAAGGATAACTGGGATCTGGGCACCTTGTAAAATAAATAATGCCACTTTATCCTT CTCAAAAAAATGTTATCCCAGTATAACAGTGGTGCGGTTCTGCTCCCCACTCACAGTAG CCACCGTTCTACCATTTACAAACGTGTCAAGTCAGTCTTCCTGATTTGTAAGGATGCCTA TTTTGGTTCCTTAAAAATATTTCCAGTAGGCGGTGACAGAAAAAATACTTATTTAGCCC CACTCAGAGTAGAGGATCAGTATGTCAACATATTGGTCCGGTCATGGCTTTCTTCTCGTGA TCACTGAGGTCAAATTTCTCATATAATTATAAATGTTAAAAGATAAAAATTACATCTTCA CAGCAGCCAAAAATTTGNATATTTTTATGTATTTACAATATTGTACATATTTACACGAC CACATCAAACTGAATTTGTAACAACAAGTACTATCTATAAAGGCATTCAATTAATGCC CAAGCGTTATTTTCTGTGCAAAACGAAACTTTTTCTTAACTTCTATTAAGGTAAGA CAGTCAACGTTGCGAAGGCCACATCCATGGTTAAGAGCCAAACCTTTCTAAATGTGTT ATTTTCAGCAAGTTCTTTAACACCCTTCCATCTCTTTCTTAAATNCTCATACCAAGAT CCATTNTACTAAGTGGTAAAACCTTGATAATGGGGGCATGGTATGTTGATCCCTGGAAGT AACATTTTT
Restriction Sites:	NotI-NotI
ACCN:	NM_013254
Insert Size:	2880 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_013254.2 , NP_037386.1
RefSeq Size:	2982 bp
RefSeq ORF:	2190 bp
Locus ID:	29110
UniProt ID:	Q9UHD2
Cytogenetics:	12q14.2
Domains:	pkinase, TyrKc, S_TKc
Protein Families:	Druggable Genome, Protein Kinase
Protein Pathways:	Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway
Gene Summary:	The NF-kappa-B (NFKB) complex of proteins is inhibited by I-kappa-B (IKB) proteins, which inactivate NFKB by trapping it in the cytoplasm. Phosphorylation of serine residues on the IKB proteins by IKB kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation and nuclear translocation of the NFKB complex. The protein encoded by this gene is similar to IKB kinases and can mediate NFKB activation in response to certain growth factors. [provided by RefSeq, Oct 2010]