

## Product datasheet for **SC123693**

### TBK1 (BC009864) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	TBK1 (BC009864) Human Untagged Clone
Tag:	Tag Free
Symbol:	TBK1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene sequence for BC009864 edited

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GGCACGAGGGACCAGTCTTTGGTTATACATTTGGCAATTACTTGGGAGTTGTTTTGAGGC
CACCTACTAAGAATACTTGGGATAGAGATTACAAATTAACCCATAAGCCAGGTAGACGA
GGAGCAAGGAAATGTCTGGGAATTCGTATTTTCATCGGCATATATTTAAAACATCTTATGC
TTCTAATTTCCGGTGTGAGTCAACCTCTGCGGACTGAACATCACTAAAACCTAAAGGAAA
CGTCTCTTTTTAATCCTCTGAAAAATCAATACATTTAAAAACTGCCCGTTGTGTGCGACGC
TCGGAAAGAGGGTAGAAAAACAGCGAGTCTAAGGGAAAGAGGTGCCCTGCCTCCCCAGGC
AGCCAGGGCCCAGGCCCGGTAACGGAGTCGTCTTTATGCCCAAAGCCGCGCGGACGGG
ATGCAGGTCGAGGACCGCCGCGCGCGGAGCGGGATGCAGGTAACAGGGCCCGCGC
GACCATTCCACCGGCTACGGCCACCCGACACACACCCAGAGGCAGTGTCCACGCAGCCG
GGTCTCGGATGGCTTGGCTCGGTCGTCCGGGCTTCTCGGTGCGCCCGCCCGCCGCCC
CCGCTCTGACTCAGCATCCCAGCCTCCACAGGGGGCGGGAGCGCTCCCGCCGGGCGGC
GCAGGCCGTGACCGACCGCCCGCCGCGCCTTGCCCTCAGCCCGCGGCGCTCACT
TACCCAGCCGGTCTCCGCGCGCCACCGCCGCGGGCTCCCGCGGCTCCTCGAGACTC
AGGACACTTCCGGCTTCGCAAGCCTGGCCGGAGGCCACGTGACCGACGGCCGCGCGCC
GGTGCGGGTGCGCGTGCGCACGCCTATGGCCCGTCTGGTAGTCACCACAGCCGCGCGGC
AACTGCCGAGTCGGCTTCCGCGCCACGGTAATGAGGGGGATGTCTGGAGACACCCCGTC
CACTGTTGCCCTCGCCCTTACTCTAAAGGGGAATGAGGAGCCCTGAGCAGCGAACACAG
TAATTGGGATTCGCAACTGCAATCCCGCCCTTCCCGAGCGCTGGCCGACAGTAGG
GCGGACCGACGCTGAGCAAGGGATTACATCCCAAGATTTACAGGTGTGCAGAACGTGGGA
CACGTGGGGGACAGCACAGACGCGCCGAGAGCTGGGAGGGATGGATTCTATGTTTTAA
GGGCCCACTTTGGCTGCACTGGAGCCAGATTATCGTCTCGCAGTAATTCAGACTTTACAT
TGTTTTTTTCATTTTCCCATCACCCAGAAATACATTAATTTCTTAATGTAATAATGTTCA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for BC009864 unedited NGGGAGTTCANAATTTTGTAAATACGACTTCATTATAGGGCCGNGCCGCGCAATTCGTATT TCATCGGCATATATTTAAACATCTTATGCTTCTAATTTCCGGTGTGAGTCAACCTCTGC GGACTGAACATCACTAAAACCTCTAAGGAAACGTCTCTTTTTANATCCTCTGAAAAATCAA TACATTTAAAACTGCCCGTTGTGTCGACGCTCGGAAAGAGGGTAGAAAAACAGCGAGTCT AAGGAAAAGAGGTGCCCTGCCTCCCAGGCAGCCAGGGCCAGGCCCGGTAACGGAGTC GTCCTCTTTATGCCCAAAGCCCGGACGGGATGCAGGTCGAGGACCGGCCGCGCGGCGC GGAGCGGGGATGCAGGTAAACAGGGCCCGCGGACCATTCACCGGCTACGGCCACCCGAC ACACACCCAGAGGCAGTGTCCACGCAGCCGGGTCTGGATGGCTTGGCCTCGGGTCGT CCGGGGCTTCTCGGTGCGCCCGCCCGCCCGCTCTGACTCAGCATCCCAGCCTCCCA CAGGGGGCGGGAGCGCTCCCGCCGGGCGGCGCAGGCCTGACCGACCGCGCCCGCGCCG CCTTGCCCTCAGCCCGCGGCGTCTCACTTACCCAGCCGGGTCTCCGCCGCGCCACCG CCGGCGGGCTCCCGCGGCTCCTCGAGACTCAGGACACTCCGGCTTCGCAAGCCTGGC CGGAGGCCACGTACCGACNGCCGGCGCCGGTGCGGTGCAGCAGCCTATGG CCCGTCTGGTAGTCACCACAGCCGCGGCGCAACTGCCGAGTCGGCTTCGCGGCCACGG TAATGAAGGGGATGTCTGGAGACACCCGTTCACTGTTGCCCTCGCCCTTACTCTAAA GGGGAATGAGGAGCCCTGC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	BC009864
<b>Insert Size:</b>	1349 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">BC009864.1</a> , <a href="#">AAH09864.1</a>
<b>RefSeq Size:</b>	1349 bp
<b>Locus ID:</b>	29110
<b>Cytogenetics:</b>	12q14.2
<b>Protein Families:</b>	Druggable Genome, Protein Kinase
<b>Protein Pathways:</b>	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]