

Product datasheet for **SC125322**

IKK beta (IKBKB) (NM_001556) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKK beta (IKBKB) (NM_001556) Human Untagged Clone
Tag:	Tag Free
Symbol:	IKK beta
Synonyms:	IKK-beta; IKK2; IKKB; IMD15; IMD15A; IMD15B; NFKBIKB
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_001556 edited
ATGAGCTGGTCACCTTCCCTGACAAACGCAGACATGTGGGGCTGGGAAATGAAAGAGCGC
CTTGGGACAGGGGATTTGGAATGTCATCCGATGGCACAATCAGGAAACAGGTGAGCAG
ATTGCCATCAAGCAGTGCCGGCAGGAGCTCAGCCCCGGAACCGAGAGCGGTGGTGCTG
GAGATCCAGATCATGAGAAGGCTGACCCACCCCAATGTGGTGGCTGCCGAGATGTCCT
GAGGGGATGCAGAACTTGGCGCCCAATGACCTGCCCTGCTGGCCATGGAGTACTGCCAA
GGAGGAGATCTCGGAAGTACCTGAACCAAGTTTGAACATGCTGTGGTCTGCGGGAAGGT
GCCATCCTCACCTTGTGAGTGACATTGCCTCTGCGCTTAGATACCTTCATGAAAACAGA
ATCATCCATCGGGATCTAAAGCCAGAAAACATCGTCTGCAGCAAGGAGAACAGAGGTTA
ATACACAAAATTATTGACCTAGGATATGCCAAGGAGCTGGATCAGGGCAGTCTTTGCACA
TCATTCGTGGGACCCTGCAGTACCTGGCCCCAGAGCTACTGGAGCAGCAGAAGTACACA
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AAGACTGTTGTCCGGCTGCAGGAGAAGCGGCAGAAAGGAGCTCTGGAATCTCCTGAAGATT
GCTTGTAGCAAGTCCGTGGTCTGTGAGTGAAGCCCGGATAGCATGAATGCCTCTCGA
CTTAGCCAGCCTGGGCAGCTGATGTCTCAGCCCTCCACGGCTCCAACAGCTTACCTGAG
CCAGCCAAGAAGAGTGAAGAAGTGGTGGCTGAAGCACATAACCTCTGCACCCTGCTAGAA
AATGCCATACAGGACACTGTGAGGGAACAAGACCAGAGTTTACGGCCCTAGACTGGAGC
TGGTTACAGACGGAAGAAGAAGACACAGCTGCCTGGAGCAGGCCTCATGA
    
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5' Read Nucleotide Sequence:	<p>>OriGene 5' read for NM_001556 unedited GCCGCCCCAGCCCCGCTTCCCCGCCCCGGGAGCCCCGCCCTGCCCGCGTCCCTGCC GACAGAGTTAGCACGACATCAGTATGAGCTGGTCACCTTCCCTGACAACGACAGACATGTG GGGCTGGGAAATGAAAGAGCGCCTTGGGACAGGGGATTTGGAAATGTCATCCGATGGC ACAATCAGGAAACAGGTGAGCAGATTGCCATCAAGCAGTGCCGGCAGGAGCTCAGCCCC GGAACCGAGAGCGGTGGTGCCTGGAGATCCAGATCATGAGAAGGCTGACCCACCCCAATG TGGTGGCTGCCCGAGATGTCCCTGAGGGGATGCAGAACTTGGCGCCCAATGACCTGCCCC TGCTGGCCATGGAGTACTGCCAAAGAGGAGATCTCCGGAAGTACCTGAACCAAGTTTGAGA ACTGCTGTGGTCTGCGGAAAGGTGCATCCTCACCTTGCTGAGAGACATTGCCTCTGCGC TTANATACCTTCTGAAAACAAAATCATCCATCGGGATCTAAAGCCAAAAACATCTTCC TGCAGCAAGGAGAAACAAAGGTTAATCCACAAAATTATTGCCCTATGATTTGCCACGGAG CTGGATTAGGGCAGTCTTTTACATAATTCTGGGGACCTGGATTCTGGCCCCAACT TCTGGAGCCAAAAGTACCACGGACCGTCGCTATTGGACTTCGGCCCTGTCTTTGATGG ATAAGGGCTTTCGGCCTTCTTCCCACTGGCAGCCGGGGTGGTGTAAAATCCGGGAA AAAAGAGGGGGCTTGTGTCCAAACCTAATTGAACGTA</p>
3' Read Nucleotide Sequence:	<p>>OriGene 3' read for NM_001556 unedited NGGCTAGGGTCTTTATAACGGCCTCCTCATTGGNAAGTTAATACATGTTTCACACACAC AATCAGCAGGAGAAAAAGTTTCTATAGCCAAATGACATTGATAAACAGTGTCTTACACAA AGTTAAGCCTGTTTCTTTATTATAAGACTTTTTCAGATACTTCCAGTGCATAGTGTGAA TCTCCACAAAGCAAGTGAACATGAATAGCTCCCTAAACTTACTTGACCACAGAATGCTT CATTCTATCTCCATGAAACCACTTGTGAAAGTCTCCTACTCCAACCTTCTTCTCCAACA AAACTCACCTGTTTGTGATCATCTGAACTATTTTGTGCTCTTGCTTTATATAAAGAG AAGTTCTGTGAAATGTTGAAGAAGCAGGGTTATGGCACTAGTAATGATCCAGGCACTATA CACATTGTTAACATTTTCCATTATTTTAGTTTCAGAAGCCCTAACCATATGTATTCTAACA GTGGATTGTGGAACCACTATGAGTGTGAGACGTGTGCCNTATACGGGAGCTATTTT GTATATGAATCCATTGATTATCCCTGCTAGTTGCCGTGTGAGACGCCCACTACCCGGGGC AGCGCCCTTGCTCGGGCCGGCTGGGGACCCGGTGGGGCGCCGGCCGGCAGGTTGCTCGG CCCTTGCCCGTGTGGGGCGGGCTTTGTCTCTCTCCCTAGGTTGCGTGTGGGTGCG CCCGCTTGTGCTGGTGGCGTTTTTCCGTGGGGCGTTTTCGGCGCTTCTCCTCTNNTAC TGCCGCGTGTGGTCGGCACCCCTGCATCTCCCNCGTTGGTGTCCCTTTGATGGACTGG GCGCGGCGCCGCTCCGATCATTTGTTGCCGTCTTTTCCCGCCCTTTGCCGCTTTTGTCT CCCCCTCCCCCTTTTTCCCGCCTTTGTTTTATATAGACGCTTAGCCAGAAACA</p>
Restriction Sites:	NotI-NotI
ACCN:	NM_001556
Insert Size:	4500 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_001556.1 , NP_001547.1
RefSeq Size:	3916 bp
RefSeq ORF:	2271 bp
Locus ID:	3551
UniProt ID:	O14920
Cytogenetics:	8p11.21
Protein Families:	Druggable Genome, Protein Kinase, Transcription Factors
Protein Pathways:	Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus
Gene Summary:	<p>The protein encoded by this gene phosphorylates the inhibitor in the inhibitor/NF-kappa-B complex, causing dissociation of the inhibitor and activation of NF-kappa-B. The encoded protein itself is found in a complex of proteins. Several transcript variants, some protein-coding and some not, have been found for this gene. [provided by RefSeq, Sep 2011]</p> <p>Transcript Variant: This variant (1) encodes the longest isoform (1).</p>