

Product datasheet for **SC323399**

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-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_001556, the custom clone sequence may differ by one or more nucleotides

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ATGAGCTGGTCACCTTCCCTGACAACGCAGACATGTGGGGCCTGGGAAATGAAAGAGCGCCTTGGGACAG
GGGGATTTGAAATGTCATCCGATGGCACAATCAGGAAACAGGTGAGCAGATTGCCATCAAGCAGTGCCG
GCAGGAGCTCAGCCCCGGAACCGAGAGCGGTGGTGCCTGGAGATCCAGATCATGAGAAGGCTGACCCAC
CCCAATGTGGTGGCTGCCGAGATGTCCCTGAGGGGATGCAGAACTTGGCGCCAATGACCTGCCCTGC
TGGCCATGGAGTACTGCCAAGGAGGAGATCTCCGGAAGTACCTGAACCAGTTTGAGAAGTCTGTGGTCT
GCGGGAAGGTGCCATCCTCACCTTGCTGAGTGACATTGCCTCTGCGCTTAGATACCTTCATGAAAACAGA
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TTATTGACCTAGGATATGCCAAGGAGCTGGATCAGGGCAGTCTTTCACATCATTCGTGGGGACCCTGCA
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AAGTGCAGCAGAAGAGTGAAGTGGACATTGTTGTTAGCGAAGACTTGAATGGAACGGTGAAGTTTTCAAG
CTCTTTACCCTACCCCAATAATCTTAACAGTGTCTGGCTGAGCGACTGGAGAAGTGGCTGCAACTGATG
CTGATGTGGCACCCCGACAGAGGGGCACGGATCCCACGTATGGGCCCAATGGCTGCTTCAAGGCCCTGG
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CAGGAGCTGTGCAGGAAGCGGGCTGGCGTTGATCCCCGATAAGCCTGCCACTCAGTGTATTTAGACG
GCAAGTAAATGAGGGCCACACATTGGACATGGATCTTGTTCCTTTGACAACAGTAAAATCACCTA
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CTCGCCTTCTCCAGCTGAGGAAGTGTGGGGCCAGGCTGGCACAGCATCCAGACCTGAAGGAAGATT
GCAACCGCTGCAGCAGGACAGCGAGCCGATGATGAATCTCCTCCGAAACAACAGCTGCCTCTCCAA
AATGAAGAATTCCATGGCTTCCATGTCTCAGCAGCTCAAGGCCAAGTTGGATTTCTTCAAAAACAGCATC
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GGAGGGAAATGGAGCAGGCTGTGGAGCTCTGTGGGCGGGAGAACGAAGTAAAACCTGTTAGAACGGAT
GATGGCTCTGCAGACCGACATTGTGGACTTACAGAGGAGCCCATGGGCCGAAGCAGGGGGGAACGCTG
GACGACCTAGAGGAGCAAGCAAGGAGCTGTACAGGAGACTAAGGGAAAAACCTCGAGACCAGCGAACTG
AGGGTGACAGTCAGGAAATGGTACGGCTGCTGCTTCAAGCAATTCAGAGCTTCGAGAAGAAAGTGGCAGT
GATCTATACGCAGCTCAGTAAAACCTGTGGTTTGAAGCAGAAGGGCTGGAAGTGTGCCAAGGTGGAA
GAGGTGGTGAAGCTTAATGAATGAGGATGAGAAGACTGTTGTCCGGCTGCAGGAGAAGCGGCAAGAGGAGC
TCTGGAATCTCCTGAAGATTGCTTGTAGCAAGGTCCTGGTCTGTGAGTGAAGCCCGGATAGCATGAA
TGCCCTCTCGACTTAGCCAGCCTGGGCAGCTGATGTCTCAGCCCTCCACGGCCTCCACAGCTTACCTGAG
CCAGCCAAGAAGAGTGAAGAAGTGGTGGCTGAAGCACATAACCTCTGCACCCTGTAGAAAATGCCATAC
AGGACACTGTGAGGGAACAAGACCAGAGTTTACGGCCCTAGACTGGAGCTGTTACAGACGGAAGAAGA
AGAGCACAGCTGCCTGGAGCAGGCTCATGA
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5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_001556 unedited CCCGCCCGTTGAGCAATGGGCGGTAGGCGTGTACGGAGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGA ACCGTCAGAAATTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCTGCCCGCGTTA AGATTCCCGCATTTTAATGTTTTTCAGGGGGGTGTCATAGCCCCGGGTTTGGCCGCCCCAGCCCCGCCTTC CCCGCCCGGGGAGCCCGCCCCCTGCCCGCGTCCCTGCCGACAGAGTTAGCACGACATCAGTATGAGCT GGTACACCTTCCCTGACAACGCAGACATGTGGGGCTGGGAATGAAAGAGCGCCTTGGGACAGGGGATTT GGATGGTCATCCCGATGGCCCAATCAGGGAAACAGGTGGACCAGATTGCCTTCAGGCCGGGGCCGGGGG GGGCCTCACCCCGGGAACCCAAAAAGCGGGGGGGCCTGGAAATCCAATCATGAAAAAGGCGGACCC CCCCCAAATGTGGGGGGCGTGCCAAAAATGCCCGGAAGGGGGACGCAAACTTGGGCCCCCAAAGGCC CTGGCCCGGGGGGCATGGGTTTCCGGCCAGGGGGAAAAATCCCGGAAAAATCCCGAACCCCTTTTAA AAACCGGTTGGGGTCCGCGGAAAGGGCCCCCCCCCTTTGGTGGGGGAATTTCCCTCCCCCCC TAAACCCCTTGAAAAAATAAATCCCTGGGGTTTTAAACCCAAAAAATTTCCCTCCGGCC CGGGGAAACAAAAGGTGTTTAACCCCAATATTGGGCCCTAGAAATCCCGAGCTGTGTGTAGGGGGC CCTTGCCCATTAATTGGGGGGCACCCGCTGAATTGCGGGCCGAATACATGTGTGAGACCAGAATAAA TACCAGAGTGCGCCGCAACAGGTGGATCTCTGCCCCCGCCTTTATTTGATTATCTACGGGTTCTCG CCTTCTCTCTCATGTGCGGCCGCGCATGGCATGATGTAGA
Kinase Domain Sequence:	>SC323399 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CSATGMGCAATGGGCGGTAGGCKGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTCA GAATTTTGAATACGACTCACTATAGGGCGGCCGGAATTCGGCACGAGGGCTGCCCGCGTTAAGATTCC CGCATTTTAATGTTTTAGGGGGGTGTCATAGCCCCGGGTTTGGCCGCCCCAGCCCCGCCTTCCCCGCC CGGGGAGCCCGCCCTGCCCGCGTCCCTGCCGACAGAGTTAGC
Restriction Sites:	Please inquire
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).
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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>