

Product datasheet for **SC107269**

IKB zeta (NFKBIZ) (NM_031419) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKB zeta (NFKBIZ) (NM_031419) Human Untagged Clone
Tag:	Tag Free
Symbol:	IKB zeta
Synonyms:	IKBZ; INAP; MAIL
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for NM_031419, the custom clone sequence may differ by one or more nucleotides

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ATGATTGTGGACAAGCTGCTGGACGACAGCCGCGGGAGAGGGGCTGCGGGACGCGGGGGGCGGCTGCG
GCCTCATGACCAGCCCGCTCAACCTGAGCTACTTCTACGGCGCGTCGCCGCCCGCCGCCCGCCGGGCGC
CTGCGACGCCAGCTGCTCGGTCTTGGGCCCTCGGCGCCGGCTCGCCCGGCTCCGACTCCTCCGACTTC
TCCTCTGCCTCGTCGGTGTCTCCTGCGGCGCCGTGGAGTCCCGGTCGAGAGGCGGCGCCCGCGCCGAGC
GCCAGCCAGTTGAGCCCCATATGGGGTTGGCAGGCAGCAGAGAGGCCCTTTCAAGGTGTTGCGGTAAA
GAACTCAGTGAAGGAACCTCTGTGCACATCCGAAGTCATAAACAGAAGGCTTCTGGCCAAGCTGTGGAT
GATTTTAAAGACACAAGGTGTGAACATAGAACAGTTCAGAGAATTGAAGAACACAGTATCATAACAGTGGG
AAAGGAAAGGGCCGATTCTGTTGTCTGATGGACCTGCTTGCAAAAGGCCAGCTCTGTTGCATTCCCAATT
TTTGACACCACCTCAAACACCAACGCCCGGGAGAGCATGGAAGATGTTCAATCAATGAACCCAAACAG
GAGAGCAGTGCTGATCTGCTTCAGAACATTATCAACATTAAGAATGAATGCAGCCCGTTTCCCTGAACA
CAGTTCAAGTTAGCTGGCTGAACCCGTTGGTCCCTCAGAGCTCCCCGCAGAGCAGTGTGAGGACTT
CCATGGAGGGCAGGTCTTTTCTCCACCTCAGAAATGCCAACCATTCGAAGTCAGGGGCTCCCAACAAATG
ATAGACCAGGCTTCCCTGTACCAGTATTCTCCACAGAACCAGCATGTAGAGCAGCAGCCACACTACACCC
ACAAACCAACTCTGGAATACAGTCTTTTCCCATACTCCCCAGTCCCCCGCTTATGAACCAACCTCTT
TGATGGTCCAGAATCACAGTTTTGCCAAACCAAGCTTAGTTTTCCCTTCTTGGTGATCAAAGGGAATCT
GAGAATATTGCTAATCCCATGCAGACTTCTCCAGTGTTGAGCAGCAAAATGATGCTCACTTGCACAGCT
TCAGCATGATGCCAGCAGCGCCTGTGAGGCCATGGTGGGGCACGAGATGGCCTCTGACTCTTCAAACAC
TTCACTGCCATTCTCAAACATGGGAAATCCAATGAACACCACACAGTTAGGAAATCACTTTTTCAGTGG
CAGGTGGAGCAGGAAGAAAGCAAATGGCAAATATTTCCAAGACCAGTTCTTTCAAAGGATGCAGATG
GTGACACGTTCCCTCATATTGCTGTTGCCAAGGGAGAAGGGCACTTTCCTATGTTCTTGAAGAAAGAT
GAATGCACTTCACATGCTGGATATTAAGAGCACAATGGACAGAGTGCCTTTGAGGTGGCAGTGGCTGCC
AATCAGCATCTCATTGTGCAGGATCTGGTGAACATCGGGGCACAGGTGAACACCACAGACTGCTGGGGAA
GAACACCTCTGCATGTGTGTGCTGAGAAGGGCCACTCCAGGTGCTTCAGGCGATTGAGAAGGGAGCAGT
GGGAAGTAATCAGTTTGTGGATCTTGAGGCAACTAACTATGATGGCCTGACTCCCCTTCACTGTGCAGTC
ATAGCCCAACAATGCTGTGGTCCATGAACTCCAGAGAAATCAACAGCCTCATTACCTGAAGTTCAGGAGC
TTTTACTGAAGAATAAGAGTCTGGTTGATACCATTAAGTGCCTAATTCAAATGGGAGCAGCGGTGGAAGC
GAAGGATCGAAAAGTGGCCGCACAGCCCTGCATTTGGCAGCTGAAGAAGCAAATCTGGAACCTATTCCG
CTTTTTTGGAGCTGCCAGTTGCCTGTCTTTTGTGAATGCAAAGGCTTACAATGGCAACACTGCCCTCC
ATGTTGCTGCCAGCTTGCAGTATCGGTTGACACAATTAGATGCTGTCCGCTGTTGATGAGGAAGGGAGC
AGACCAAGTACTCGAACTTGGAGAACGAACAGCCAGTGCATTTGGTCCCGATGGCCCTGTGGGAGAA
CAGATCCGACGTATCCTGAAGGGAAAGTCCATTGAGCAGAGAGCTCCACCGTATTAG
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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_031419 unedited
 AAAAAATAATAAAATTAATCAACAATCAGGTTACATTTGTATACGATCATATAGGCGG
 CCGCGCGTCCGCCGNCCGACGCTCCCTGAGCCAGCCCGGGAGGCAGCCGCGCGCAGCGA
 GCCGGTGGCGCAGGTGTCGGGGTCTCGAGCGCCAGCCTGGGAGCATGATTGTGGACAA
 GCTGCTGGACGACAGCCGCGCGGAGAGGGGCTGCGGGACGCGCGGGCGGCTGCGGCCT
 CATGACCAGCCCGCTCAACCTGAGCTACTTCTACGGCGCGTCGCCGCCCGCCGCCGCC
 GGGCGCCTGCGACGCCAGCTGCTCGGTCTTGGGCCCTCGGCGCCCGGCTCGGCCGGCTC
 CGACTCCTCCGACTTCTCTCTGCTCGTCTCGGTGCTCCTGCGGCGCCGTGGAGTCCCG
 GTCGAGAGGGCGGCCCGCCGAGCGCCAGCAGTTGAGCCCCATATGGGGTTGGCAG
 GCAGCAGAGAGGCCCTTTCAAGGTGTTGCGGTAAAGAACTCAGTGAAGGAACTCCTGTT
 GCACATCCGAAGTCATAAACAGAAGGCTTCTGGCCAAGCTGTGGATGATTTTAAGACACA
 AGGTGTGAACATAGAAGCTTCAAGAGAATCGAAGAACACAGTATCATAACAGTGGGAAAAG
 GAAAGGGCCCGATTCTGTTGTCTGATGGACCTGCTTGCAAAGCCAGCTCTGTTGCATTCC
 CCATTTTTGACACCACCTTAAACACCAACGTCCCGGGGAGAGCATGGAAGATGTTTCATCT
 CAATGAACCCAAACAGGAGAGCAGCGCTGATCTTGTTCAAACCTTATCACCCATTAAGA
 ATGGATGCAGCCCCGTTTCTCTGAAACAGGTTAAGGTTAACTGGCCTGACCCCGTGG
 GGTCCCTCAAAGCTTCCCCGAAACACTGTGTAGGACTTTCATGAAGGGCAGGGCTTCT
 TTCN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_031419 unedited
 TTTTTTTTTTTTTTTTAAATATAACCCACTATATAATAGTGAACATAATGTTTGTTC
 ATAGAAACAACCTACATTTGCCAATATAAGGCAAATGGTCTATGTACAGATACATCAGGA
 CTGCTAACTGACAGTGAGTGTGCTAGCCAGGCTCCAAGCTAATGGAGCTAATACGGTG
 GAGCTCTCTGCTGAATGGACTTTCCTTCAGGATACGTCCGATCTGTTCTCCACAGGGC
 CATCGGAAACCAATGCACTGGCTGTTCTGTTCTCCAAGTCCGAGTACTGGGTCTGCTC
 CCTTCTCATCAACAGGCGGACAGCATCTAATTGTGTCAACCGATACTGCAAGCTGGCAG
 CAACATGGAGGGCAGTGTGCCATTGTAAGCCTTCGCTTCCACCCTGCTCCCATTTGAA
 TTAGGCACTTAATGGTATCAACCAGACTTATTCTTTCAGTAAAAGCTCCTGAACCTCAG
 GTGAATGAGGCTGTTGATTTCTCTGGGAGTCATGGACCACAGCATTGTGGCTATGACTG
 CACAGTGA

Restriction Sites:

NotI-NotI

ACCN:

NM_031419

Insert Size:

2500 bp

OTI Disclaimer:

Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

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:	<u>NM_031419.2</u> , <u>NP_113607.1</u>
RefSeq Size:	3934 bp
RefSeq ORF:	2157 bp
Locus ID:	64332
UniProt ID:	<u>Q9BYH8</u>
Cytogenetics:	3q12.3
Domains:	ANK
Protein Families:	Druggable Genome
Gene Summary:	This gene is a member of the ankyrin-repeat family and is induced by lipopolysaccharide (LPS). The C-terminal portion of the encoded product which contains the ankyrin repeats, shares high sequence similarity with the I kappa B family of proteins. The latter are known to play a role in inflammatory responses to LPS by their interaction with NF-B proteins through ankyrin-repeat domains. Studies in mouse indicate that this gene product is one of the nuclear I kappa B proteins and an activator of IL-6 production. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008] Transcript Variant: This variant (1) encodes the longer isoform (a).