

Product datasheet for **RG219121**

IKB zeta (NFKBIZ) (NM_031419) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Tag:	TurboGFP
Symbol:	IKB zeta
Synonyms:	IKBZ; INAP; MAIL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



ORF Nucleotide Sequence: >RG219121 representing NM_031419
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGATTGTGGACAAGCTGCTGGACGACAGCCGCGGAGAGGGGCTGCGGGACGCGCGGGCGGCTGCG
 GCCTCATGACCAGCCCGCTCAACCTGAGCTACTTCTACGGCGCGTCGCCGCCCGCCGCCCGCGGGCGC
 CTGCGACGCCAGCTGCTCGGTCTTGGGCCCTCGGCGCCCGGCTCGCCCGGCTCCGACTCCTCCGACTTC
 TCCTCTGCCTCGTCGGTGTCTCTCGCGCGCCGTGGAGTCCCGGTGAGAGGCGCGCCCGCGCCGAGC
 GCCAGCCAGTTGAGCCCCATATGGGGTTGGCAGGCAGCAGAGAGGCCCTTTCAAGGTGTTTCGGGTAAA
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 GATTTTAAGACACAAGGTGTGAACATAGAACAGTTCAGAGAATTGAAGAACACAGTATCATACAGTGGGA
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 GAGAGCAGTGTGATCTGCTTCAGAACATTATCAACATTAAAGAAATGAATGCAGCCCCGTTTTCCCTGAACA
 CAGTTCAAGTTAGCTGGCTGAACCCCGTGGTGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTGAGACTT
 CCATGGAGGGCAGGTCTTTTCTCCACCTCAGAAATGCCAACCATTCAGTCAAGGGGCTCCCAACAAATG
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 TGATGTTCCAGAATCACAGTCTTTCGCCAAACCAAGCTTAGTTTCCCTTCTTGGTGATCAAAGGGAATCT
 GAGAATATTGCTAATCCCATGCAGACTTCTCCAGTGTTCAGCAGCAAAATGATGCTCACTTGCACAGCT
 TCAGCATGATGCCAGCAGCGCTGTGAGGCCATGGTGGGCACGAGATGGCCTCTGACTCTTCAAACAC
 TTCCTGCTGCTTCAAACATGGGAAATCCAATGAACACCACACAGTTAGGGAATCACTTTTTCAGTGG
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 TTTTACTGAAGAATAAGAGTCTGGTTGATACCATTAAAGTGCCTAATTCAAATGGGAGCAGCGGTGGAAGC
 GAAGGATCGCAAAAGTGGCCGACAGCCCTGCATTGTCAGCTGAAGAAGCAAACTGGAACCTATTGCG
 CTCTTTTGGAGCTGCCAGTGTGCTGTCTTTGTGAATGCAAAGGCTTACAATGGCAACACTGCCCTCC
 ATGTTGCTGCCAGCTTGCAGTATCGGTTGACACAATTAGATGCTGTCCGCTGTTGATGAGGAAGGGAGC
 AGACCCCAAGTACTCGAACTTGGAGAACGAACAGCCAGTGCATTTGGTTCCCGATGGCCCTGTGGGAGAA
 CAGATCCGACGTATCTGAAGGAAAGTCCATTGAGCAGAGAGCTCCACCGTAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

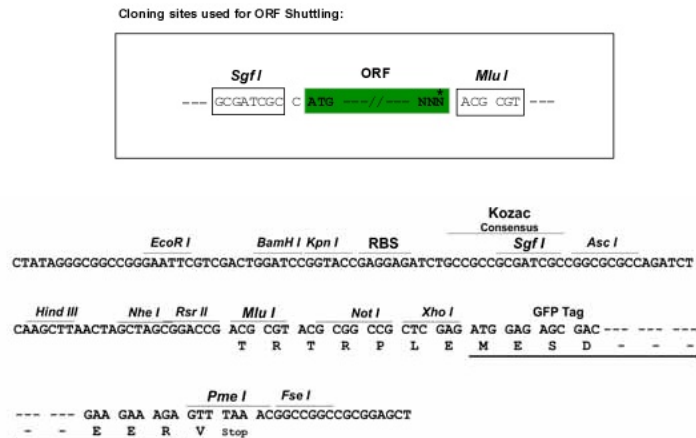
Protein Sequence: >RG219121 representing NM_031419
 Red=Cloning site Green=Tags(s)

MIVDKLLDDSRGGEGLRDAAGGCGLMTSPLNLSYFYGASPPAAAPGACDASCSVLGPSAPGSPGSDSSDF
 SSASSVSSCGAVESRSRGGARAERQVPEPHMGVGRQQRPFQGVVRVKNVKELELLHIRSHKQKASQAVD
 DFKTQGVNIEQFRELKNTVSYSGRKRKGPDSLSDGPACKRPAALLHSQFLTPPQTPTPGESMEDVHLNEPKQ
 ESSADLLQNIINIKNECSPVSLNTVQVSWLNPVVVPQSSPAEQCDQFHGGQVFSPQKCPQFQVRGSQQM
 IDQASLYQYSPQNQHVEQQPHYTHKPTLEYSFPFIPPQSPAYEPNLFDPESQFCPNQSLVSLLDQRES
 ENIANPMQTSSSVQQND AHLHSFSMPSSACEAMVGHEMASDSSNTSLPF SNMGNPMNTTQLGKSLFQW
 QVEQEESKLANISQDQFLSKDADGDTFLHIAVAQRRALSYVLARKMNALHMLDIKEHNGQSAFQVAVAA
 NQHLIVQDLVNIGAQVNTTDCWGRTPLVHCAEKHSQVLQAIQKGAVGSNQFVDLEATNYDGLTPLHCAV
 IAHNAVVELQRNQPHSPEVQELLLKNKSLVDTIKCLIQMGAAVEAKDRKSGRTALHLAAEEANLELIR
 LFLELPSCLSFVNKAYNGNTALHVAASLQYRLTQLDAVRLLMRKGADPSTRNLENEQPVHLVPDGPVGE
 QIRRIKKGKSIQQRAPPY

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_031419

ORF Size: 2154 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.

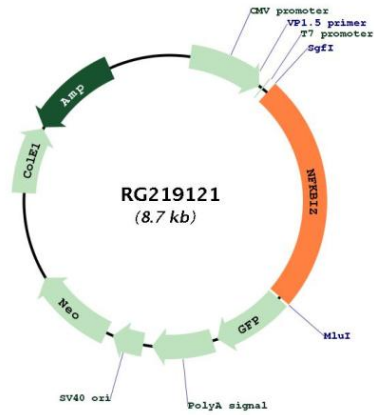
The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in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

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:	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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	<u>NM_031419.4</u>
RefSeq Size:	3938 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]

Product images:



Circular map for RG219121