

Product datasheet for **RC209215**

IKB zeta (NFKBIZ) (NM_001005474) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKB zeta (NFKBIZ) (NM_001005474) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IKB zeta
Synonyms:	IKBZ; INAP; MAIL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC209215 representing NM_001005474
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGGGTTGGCAGGCAGCAGAGAGGCCCTTTCAAGGTGTTGCGGTAAGAAGCTCAGTGAAGGAAGTCC
 TGTTGCACATCCGAAGTCATAAACAGAAGGCTTCTGGCCAAGCTGTGGATGATTTAAGACACAAGGTGT
 GAACATAGAACAGTTCAGAGAATTGAAGAACACAGTATCATAACAGTGGGAAAAGGAAAGGCCCGATTCCG
 TTGTCTGATGGACCTGCTTGCAAAGGCCAGCTCTGTTGCATTCCCAATTTTGGACACCCTCAAACAC
 CAACGCCCGGGGAGAGCATGGAAGATGTTCACTCAATGAACCCAAACAGGAGAGCAGTGTGATCTGCT
 TCAGAACATTATCAACATTAAGAATGAATGCAGCCCCGTTCCCTGAACACAGTTCAGTTAGCTGGCTG
 AACCCCGTGGTGGTCCCTCAGAGCTCCCCCGCAGAGCAGTGTGAGGACTCCATGGAGGGCAGGTCTTTT
 CTCACCTCAGAAATGCCAACCTTCCAAGTCAGGGGCTCCCAACAAATGATAGACCAGGCTTCCCTGTA
 CCAGTATTCTCCACAGAACCAGCATGTAGAGCAGCAGCCACACTACACCCACAAACCAACTCTGGAATAC
 AGTCCTTTTCCCATACCTCCCCAGTCCCCCGCTTATGAACCAAACCTCTTTGATGGTCCAGAATCACAGT
 TTTGCCAAACCAAGCTTAGTTTCCCTTCTTGGTGTATCAAAGGGAATCTGAGAATATTGCTAATCCCAT
 GCAGACTTCTCCAGTGTTCAGCAGCAAATGATGCTCACTTGCACAGCTTCCAGCATGATGCCAGCAGC
 GCCTGTGAGGCCATGGTGGGGCAGGATGGCCTCTGACTCTTCAAACACTTCACTGCCATTCTCAAACA
 TGGGAAATCCAATGAACACCACACAGTTAGGGAATCACTTTTTCAGTGGCAGGTGGAGCAGGAAGAAAG
 CAAATTGGCAAATATTTCCCAAGACCAGTTTCTTCAAAGGATGCAGATGGTGACAGTTCCTTCATATT
 GCTGTTGCCAAAGGAGAAGGGCACTTTCCTATGTTCTTGCAAGAAAGATGAATGCATTCACATGCTGG
 ATATTAAGAGCACAAATGGACAGAGTGCCTTTCAGGTGGCAGTGGCTGCCAATCAGCATCTCATTGTGCA
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 GCTGAGAAGGGCCACTCCAGGTGCTTCAAGCGATTGAGAAGGAGCAGTGGGAAGTAATCAGTTTGTGG
 ATCTTGAGGCAACTAACTATGATGGCCTGACTCCCCTTCACTGTGCAGTCATAGCCACAATGCTGTGGT
 CCATGAACTCCAGAGAAATCAACAGCCTCATTACCTGAAAGTTCAGGAGCTTTTACTGAAGAATAAGAGT
 CTGTTGATACCATTAAGTGCCTAATCAAATGGGAGCAGCGGTGGAAGCGAAGGATCGCAAAAGTGCC
 GCACAGCCCTGCATTTGGCAGCTGAAGAAGCAAATCTGGAAGTCACTCGCCTCTTTTGGAGCTGCCAG
 TTGCCTGTCTTTTGTGAATGCAAAGGCTTACAATGGCAACACTGCCCTCCATGTTGCTGCCAGTTCGAG
 TATCGTTGACACAATTAGATGCTGTCCGCTGTTGATGAGGAAGGAGCAGACCAAGTACTCGGAACT
 TGGAGAACGAACAGCCAGTGCATTTGGTCCCAGTGGCCCTGTGGGAGAACAGATCCGACGTATCTGAA
 GGGAAAGTCCATTGAGCAGAGAGCTCCACCGTAT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC209215 representing NM_001005474
 Red=Cloning site Green=Tags(s)

MGVGRQQRGPFQGVVRVKNVSKELLLHIRSHKQKASGQAVDDFKTQGVNIEQFRELKNTVSYSGKRKGPDS
 LSDGPACKRPALLHSQFLTPPQTPTPGESMEDVHLNEPKQESSADLLQNIINIKNECSPVSLNTVQVSWL
 NPVVVPQSSPAEQCDFHGGQVFSPQPQCQPFQVRGSQQMIDQASLYQYSPQNQHVEQQPHYTHKPTLEY
 SPFPIPPQSPAYEPNLFDPESQFQPNQSLVSLLDQRESENIANPMQTSVSVQQQND AHLHSFSMMPSS
 ACEAMVGHMASDSSNTSLPFSNMGNPMNTTQLGKSLFQWQVEQEESKLANI SQDQFLSKDADGDTFLHI
 AVAQRRALSYVLARKMNALHMLDIKEHNGSAFQVAVAAHQHLIVQDLVNI GAQVNTTDCWGRTPHLVC
 AEKGHSQVLQAIQKGA VGSNQFVDLEATNYDGLTPLHCAVIAHNAVVELQRNQPPHSPEVQELLLKNKS
 LVDTIKCLIQMGA AVEAKDRKSGRTALHLAAEEANLELIRLFLELP SCLSFVNAKAYNGNTALHVAASLQ
 YRLTQLDAVRLMRKGADPSTRNLENEQPVHLVPDGPVGEQIRRIKKGKSIQQRAPPY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk8113_h12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001005474

ORF Size: 1854 bp

OTI Disclaimer: 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.

RefSeq: [NM_001005474.3](#)

RefSeq Size: 3801 bp

RefSeq ORF: 1857 bp

Locus ID: 64332

UniProt ID: [Q9BYH8](#)

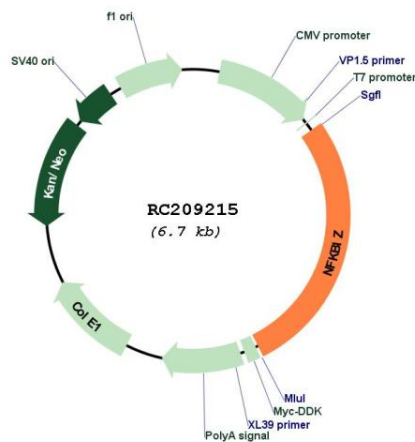
Cytogenetics: 3q12.3

Protein Families: Druggable Genome

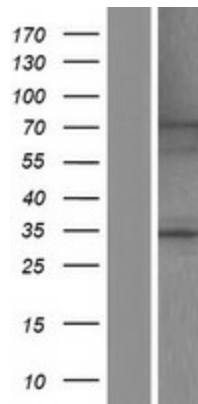
MW: 68.2 kDa

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 RC209215



Western blot validation of overexpression lysate (Cat# [LY423589]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209215 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).