

Product datasheet for **RG218695**

IKB beta (NFKBIB) (NM_001001716) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IKB beta (NFKBIB) (NM_001001716) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: NFKBIB
Synonyms: IKBB; TRIP9
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG218695 representing NM_001001716
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATGGTGGACAGCGGCCTGGGCTCCCTGGGTCCGGACGCAGCGGCCCGGAGGACCTGGGTTGGG
 CGCGGAGTTGGGCCGGGGCTGTCGTGGGCTCCCCTCGTCTTCGGCTACGTCAGGATGGGGACAG
 CTTCTCGCCGGCACTGAGTACATGGACCTGCAGAATGACCTAGGCCAGACAGCCCTGCACCTGGCAGCC
 ATCCTGGGGGAGACATCCACGGTGGAGAAGCTGTACGCAGCAGGCGCCGGGCTGTGTGGCGGAGCGTA
 GGGGCCACACGGCGCTGCACCTGGCCTGCCGTGTGGGGGCACACGCTGTGCCCGTGCCCTGCTTCAGCC
 CCGCCCCGCGCCCCAGGGAAGCCCCGACACCTACCTCGCTCAGGGCCCTGACCGTACTCCCGACACC
 AACCATACCCCTGTCCGCTTGTACCCCGATTCCGACTTGGAGAAGGAAGAAGAGGAGAGTGGAGGAGACT
 GGAAGCTGCAGCTGGAGGCTGAAAACACTACGAGGGCCACACCCCACTCCACGTGGCCGTTATCCACAAAGA
 TGTGGAGATGGTCCGGCTGCTCCGAGATGCTGGAGCTGACCTTGACAAACCGGAGCCACGTGCGGCCGG
 AGCCCCCTTCATTTGGCAGTGGAGGCCAGGCAGCCGATGTGCTGGAGCTTCTCTGAGGGCAGGCGCGA
 ACCCTGCTGCCCGCATGTACGGTGGCCGACCCCACTCGGCAGTGCCATGCTCCGGCCCAACCCCATCCT
 CGCCCCCTCCTCCGTGCACACGGAGCCCTGAGCCCAGGGCGAGGACGAGAAATCCGGCCCTGCAGC
 AGCAGTAGCGACAGCGACAGCGGAGACGAGGGCGTGAGTCAGGAGGAGACAGGGCAGCCAGCTGGGG
 GGTGAGGA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG218695 representing NM_001001716
 Red=Cloning site Green=Tags(s)

MNGATAAWAPWVRTQRPPEDLGWARSWARGCRGLPSSSATSLRMGTRFSAGTEYMDLQNDLGQ TALHLAA
 ILGETSTVEKLYAAGAGLCVAERRGHTALHLACRVGAHACARALLQPRPRRPREAPD TYLAQGPDRTPDT
 NHTPVALYPDSLEKEEEEESEEDWKLQLEAENYEGHTPLHVAVIHKDVMVRLLRDAGADLDKPEPTCGR
 SPLHLAVEAQAADVLELLLLRAGANPAARMYGGRTPLGSAML RPNPILARLLRAHGAPEPEGEDEKSGPCS
 SSSSDSDSGDEGVSQEERQGSAPGGSG

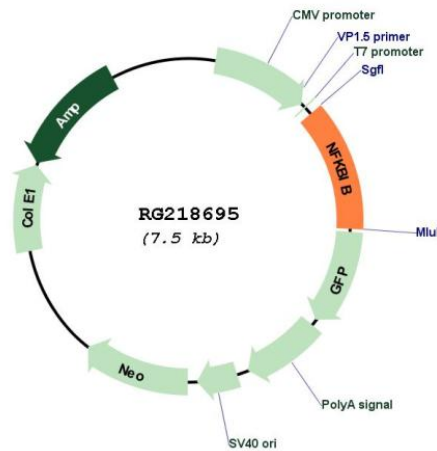
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001001716

ORF Size: 918 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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:	<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_001001716.1 , NP_001001716.1
RefSeq Size:	2213 bp
RefSeq ORF:	920 bp
Locus ID:	4793
Cytogenetics:	19q13.2
Protein Families:	Stem cell - Pluripotency, Transcription Factors
Protein Pathways:	Adipocytokine signaling pathway, B cell receptor signaling pathway, Chemokine signaling pathway, Cytosolic DNA-sensing pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, RIG-I-like receptor signaling pathway, T cell receptor signaling pathway
Gene Summary:	The protein encoded by this gene belongs to the NF-kappa-B inhibitor family, which inhibit NF-kappa-B by complexing with, and trapping it in the cytoplasm. Phosphorylation of serine residues on these proteins by kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B, which translocates to the nucleus to function as a transcription factor. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Jul 2011]