

Product datasheet for **RG202182**

IKB beta (NFKBIB) (NM_002503) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | IKB beta (NFKBIB) (NM_002503) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | IKB beta |
| Synonyms: | IKBB; TRIP9 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG202182 representing NM_002503 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGGGGTCGCGTGCTTGGGAAAAGCTGCCGACGCAGATGAATGGTGCACAGCGGCCTGGGCTCC
TGGGTCCGGACGCAGCGGCCCGGAGGACCTGGGTGGGCGGGAGTTGGGCCCGGGCTGTCGTGGGC
TCCCTCGTCTTCGGCTACGTCACTGAGGATGGGACACGGCACTGCACCTGGCTGTGATTCATCAGCAT
GAACCTTCTCGGATTTCTTAGGCTTCTCGCCGGCACTGAGTACATGGACCTGCAGAATGACCTAG
GCCAGACAGCCCTGCACCTGGCAGCCATCTGGGGGAGACATCCACGGTGGAGAAGCTGTACGCAGCAGG
CGCCGGGCTGTGTGTGGCGGAGCGTAGGGGCCACACGGCGCTGCACCTGGCTGCCGTGTGGGGGCACAC
GCCTGTGCCCGTGCCTGCTTACGCCCCGCCCGCGCCAGGGAAGCCCCGACACCTACCTCGCTC
AGGGCCCTGACCGTACTCCCACACCAACCATAACCCTGTGCGCTTGTACCCCGATTCCGACTTGGAGAA
GGAAGAAGAGGAGAGTGAGGAGGACTGGAAGCTGCAGCTGGAGGCTGAAAACACGAGGGCCACACCCCA
CTCCACGTGGCCGTTATCCACAAAGATGTGGAGATGGTCCGGCTGCTCCGAGATGCTGGAGCTGACCTTG
ACAAACCGGAGCCACGTGCGGCCGAGCCCCCTCATTTGGCAGTGGAGGCCAGGCAGCCGATGTGCT
GGAGCTTCTCCTGAGGGCAGGCGGAACCCTGCTGCCCGCATGTACGGTGGCCGACCCCACTCGGCAGT
GCCATGCTCCGGCCCAACCCATCCTCGCCCGCTCCTCCGTGCACACGGAGCCCTGAGCCCGAGGGCG
AGGACGAGAAATCCGGCCCTGCAGCAGCAGTAGCGACAGCGGAGACGAGGCGATGAATACGA
CGACATTGTGGTTCACAGCAGCCGAGCAAACCCGGCTGCCTCCACCCAGCCTCAAAACCTTCTCT
GACGACCCCGCCCGT

ACGGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG202182 representing NM_002503
 Red=Cloning site Green=Tags(s)

MAGVACLGAADAEWCDSGLGSLGPDAAAPGGPGLGAELGPGLSWAPLVFGYVTEGDGTALHLAVIHQH
 EPFLDFLLGFSAGTEYMDLQNDLGQ TALHLAAIILGETSTVEKL YAAGAGLCVAERRGHTALHLACRVGAH
 ACARALLQPRRRPREAPDTYLAQGPDRTPDTNHTPVVAL YPDSLEKEEEEESEEDWKLQLEAENYEGHTP
 LHVAVIHKDVEMVRLLRDAGADLDKPEPTCGRSPLHLAVEAQAADVLELLL RAGANPAARMYGGRTPLGS
 AMLRPNPILARLLRAHGAPPEGEDEKSGPCSSSDSDSGDEGDEYDDIVVHSSRSQTRL PPTPASKPLP
 DDP RPV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_002503

ORF Size: 1068 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_002503.5](#)

RefSeq Size: 1198 bp

RefSeq ORF: 1071 bp

Locus ID: 4793

UniProt ID: [Q15653](#)

Cytogenetics: 19q13.2

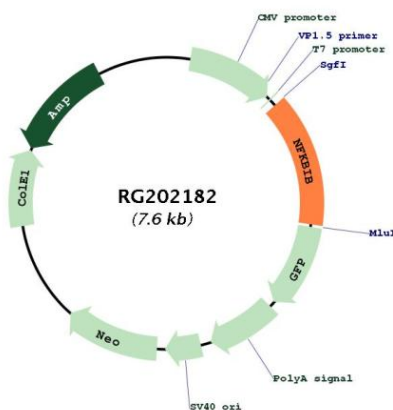
Domains: ANK

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]

Product images:



Circular map for RG202182