

Product datasheet for **RG233601**

IKB beta (NFKBIB) (NM_001243116) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: IKB beta (NFKBIB) (NM_001243116) 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: >RG233601 representing NM_001243116
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGACCTGCAGAATGACCTAGGCCAGACAGCCCTGCACCTGGCAGCCATCCTGGGGGAGACATCCACGG
TGGAGAAGCTGTACGCAGCAGGCCCGGGCTGTGTGTGGCGGAGCGTAGGGGCCACACGGCGCTGCACCT
GGCCTGCCGTGTGGGGCACACGCCTGTGCCCGTGCCCTGCTTCAGCCCCGCCCGGCCCCAGGGAA
GCCCCGACACCTACCTCGCTCAGGGCCCTGACCGTACTCCCACACCAACCATAACCCTGTCGCCTTGT
ACCCCGATTCCGACTTGGAGAAGGAAGAAGAGGAGAGTGAGGAGGACTGGAAGCTGCAGCTGGAGGCTGA
AAACTACGAGGGCCACACCCCACTCCACGTGGCGTTATCCACAAAGATGTGGAGATGGTCCGGCTGCTC
CGAGATGCTGGAGCTGACCTTGACAAACCGGAGCCCACTGCGGCCGGAGCCCCCTTCATTTGGCAGTGG
AGGCCAGGCAGCCGATGTGCTGGAGCTTCTCCTGAGGGCAGGCAGCAACCCTGCTGCCCGCATGTACGG
TGGCCGACCCCACTCGGCAGTGCCATGCTCCGGCCCAACCCATCCTCGCCCGCTCCTCCGTGCACAC
GGAGCCCCTGAGCCCGAGGGCGAGGACGAGAAATCCGGCCCTGCAGCAGCAGTAGCGACAGCGACAGCG
GAGACGAGGGCGATGAATACGACGACATTGTGGTTCACAGCAGCCGACGCCAAACCCGGCTGCCTCCAC
CCCAGCCTCAAACCTTCTCCTGACGACCCCGCCCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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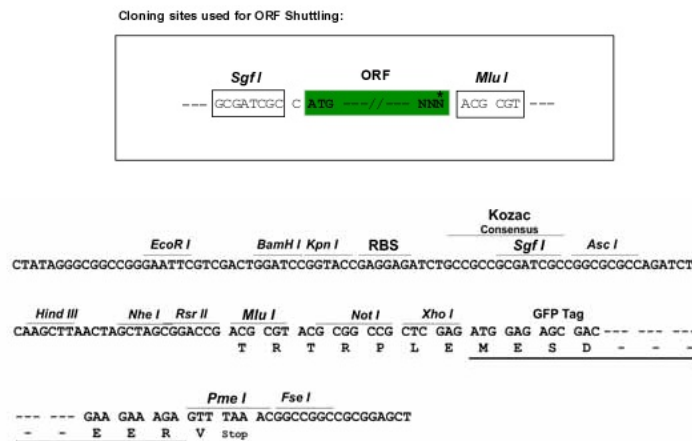
Protein Sequence: >RG233601 representing NM_001243116
Red=Cloning site Green=Tags(s)

MDLQNDLGQTALHLAAILGETSTVEKLYAAGAGLCVAERRGHTALHLACRVGAHACARALLQPRRRPRE
 APDTYLAQGPDRTPDTNHTPVVALYPDSLEKEEEEESEEDWKLQLEAENYEGHTPLHVAVIHKDVMVRL
 RDAGADLDKPEPTCGRSPLHLAVEAQAADVLELLL RAGANPAARMYGGRTPLGSAMLRPNPILARLLRAH
 GAPEPEGEDEKSGPCSSSSSDSDSGDEGDEYDDIVVHSSRSQTRLPTPASKPLPDDPRPV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001243116

ORF Size: 810 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_001243116.1](#), [NP_001230045.1](#)

RefSeq Size: 1001 bp

RefSeq ORF: 813 bp

Locus ID: 4793

UniProt ID: [Q15653](#)

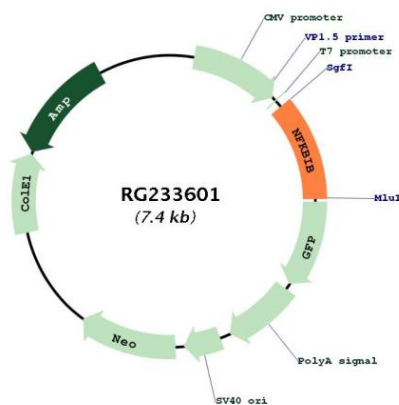
Cytogenetics: 19q13.2

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]

Product images:



Circular map for RG233601