

## Product datasheet for **RC233601**

### **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:** Myc-DDK  
**Symbol:** IKB beta  
**Synonyms:** IKBB; TRIP9  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC233601 representing NM\_001243116  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGACCTGCAGAATGACCTAGGCCAGACAGCCCTGCACCTGGCAGCCATCCTGGGGGAGACATCCACGG  
TGGAGAAGCTGTACGCAGCAGGCCCGGGCTGTGTGTGGCGGAGCGTAGGGGCCACACGGCGCTGCACCT  
GGCCTGCCGTGTGGGGGCACACGCCTGTGCCCGTGCCCTGCTTCAGCCCCGCCCGGCCCCAGGGAA  
GCCCCCGACACCTACCTCGCTCAGGGCCCTGACCGTACTCCCACACCAACCATAACCCTGTCGCCTTGT  
ACCCCGATTCCGACTTGGAGAAGGAAGAAGAGGAGAGTGGAGGACTGGAAGCTGCAGCTGGAGGCTGA  
AAACTACGAGGGCCACACCCACTCCACGTGGCCGTTATCCACAAAGATGTGGAGATGGTCCGGCTGCTC  
CGAGATGCTGGAGCTGACCTTGACAAACCGGAGCCACGTGCGGCCGGAGCCCCCTTCATTTGGCAGTGG  
AGGCCCAGGCAGCCGATGTGCTGGAGCTTCTCCTGAGGGCAGGCAGCAACCCTGCTGCCCGCATGTACGG  
TGGCCGCACCCCACTCGGCAGTGCCATGCTCCGGCCCAACCCATCCTCGCCCGCTCCTCCGTGCACAC  
GGAGCCCCTGAGCCCGAGGGCGAGGACGAGAAATCCGGCCCTGCAGCAGCAGTAGCGACAGCGACAGCG  
GAGACGAGGGCGATGAATACGACGACATTGTGGTTCACAGCAGCCGACGCCAAACCCGGCTGCCTCCAC  
CCCAGCCTCAAACCTCTTCTGACGACCCCGCCCGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >RC233601 representing NM\_001243116  
Red=Cloning site Green=Tags(s)

MDLQNDLGQTALHLAAILGETSTVEKLYAAGAGLCVAERRGHTALHLACRVGAHACARALLQPRRRPRE  
 APDTYLAQGPDRTPDTNHTPVVALYPDSLEKEEEEESEEDWKLQLEAENYEGHTPLHVAVIHKDVEMVRL  
 RDAGADLDKPEPTCGRSPLHLAVEAQAADVLELLL RAGANPAARMYGGRTPLGSAMLRPNPILARLLRAH  
 GAPEPEGEDEKSGPCSSSSSDSDSGDEGDEYDDIVVHSSRSQTRLPPPTASKPLPDDPRPV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**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

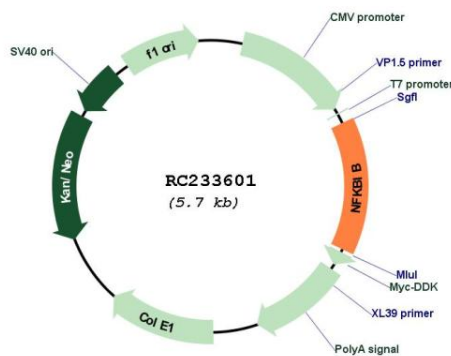
**Protein Families:** Stem cell - Pluripotency, Transcription Factors

**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

**MW:** 29.6 kDa

**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 RC233601