

## Product datasheet for **MG206493**

### **Ikbgk (NM\_010547) Mouse Tagged ORF Clone**

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Ikbgk (NM\_010547) Mouse Tagged ORF Clone  
**Tag:** TurboGFP  
**Symbol:** Ikbgk  
**Synonyms:** 1110037D23Rik; AI848108; AI851264; AW124339; IKK[g]; NEMO  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-AC-GFP (PS100010)  
**E. coli Selection:** Ampicillin (100 ug/mL)  
**ORF Nucleotide Sequence:** >MG206493 representing NM\_010547  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGAACAAGCACCCCTGGAAGAACCAGCTGAGTGAGATGGTGCAGCCCAGTGGTGGCCCAGCAGAGGACC  
 AGGACATGCTGGTGAAGAATCTTCTCTGGGAAGCCTGCAATGTACATCTGCCTTCAGAGCAGGGTAC  
 TCCTGAGACCCCTCAGCGCTGCCTGGAAGAGAATCAAGAGCTCCGAGACGCTATCCGGCAGAGCAATCAG  
 ATGCTGAGGGAACGCTGTGAGGAGCTGCTGCATTTCCAGGTGAGCCAGCGGGAGGAGAAGGAGTTCTTA  
 TGTGCAAATTCAGGAAGCCCGAAGCTGGTGGAGAGACTGAGCTTGGAGAAGCTTGATCTTCGGAGTCA  
 GAGGGAACAGGCCTTAAAGGAGTTGGAGCAACTGAAGAAATGCCAACAGATGGCTGAGGACAAGGCCTCT  
 GTGAAAGCTCAGGTGACATCATTGCTCGGAGAACTCCAGGAGAGCCAGAGCCGTTTGGAGGCTGCCACCA  
 AGGATCGGCAAGCTTTAGAGGGAAGGATTCGAGCAGTTAGTGAGCAGGTGAGACAGCTGGAGAGTGAGCG  
 GGAGGTGCTACAGCAGCAGCACAGCGTCCAGGTGGACCAGCTGCGTATGCAGAACCAGAGCGTGGAGGCT  
 GCCTTGCGAATGGAGCGGCAGGCTGCTTCAGAGGAGAAGCGGAAGCTGGCTCAGTTGCAGGCAGCCTATC  
 ACCAGCTCTTCCAAGACTACGACAGCCACATTAAGAGCAGCAAGGCATGCAGCTGGAAGATCTGAGGCA  
 ACAGCTCCAGCAAGCTGAGGAGGCCCTGGTAGCCAAACAGGAATTGATTGATAAGCTGAAAGAGGAGGCT  
 GAGCAGCACAAGATTGTGATGGAGACTGTCCAGTCTTGAAGGCCAGGCGGATATCTACAAGGCTGACT  
 TCCAAGCTGAGAGGCATGCCCGGAGAAGCTGGTGGAGAAGAAGGAGTATTTGCAGGAGCAGCTGGAGCA  
 GCTGCAGCGCAGTTCAACAAGCTGAAAGTTGGCTGCCATGAGTCAGCCAGGATTGAGGATATGAGGAAG  
 CGGCATGTAGAGACTCCCAGCCTCCTTACTCCCTGCTCCAGCTCACCCTCCTTTCAATTTGGCCTTGT  
 CCAACCAGCGGAGGAGCCCTCCTGAAGAACCCTGACTTCTGTTGTCCGAAGTGCCAGTATCAGGCTCC  
 TGATATGGACACTCTACAGATACATGTCATGGAGTGCATAGAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG206493 representing NM\_010547  
Red=Cloning site Green=Tags(s)

MNKHPWKNQLSEMVQPSGGPAEDQDMLGEESSLGKPAMLHLPSEQGTPETLQRCLEENQELRDAIRQSNQ  
 MLRERCEELLHFQVSQREEKEFLMCKFQEARKLVERLSLEKLDLRSQREQALKELEQLKKCQQMAEDKAS  
 VKAQVTSLLGELQESQSRLEAATKDRQALEGRIRAVSEQVRQLESEREVLQQQHSVQVDQLRMQNSVEA  
 ALRMRQAASEEKRLAQLQAAHYHQLFQDYDSHIKSSKGMQLEDLRQQLQQAEEALVAKQELIDKLKEEA  
 EQHKIVMETVPLKAQADIYKADFQAERHAREKLVEKKEYLQEQLQREFNKLKVGCHESARIEDMRK  
 RHVETPQPPLLPAPAHHSFHLALSNQRRSPPEEPPDFCCPKCQYQAPMDTLQIHVMECIE

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_010547

**ORF Size:** 1233 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.

**Note:** Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

**RefSeq:** [NM\\_010547.1](#)

**RefSeq Size:** 1748 bp

**RefSeq ORF:** 1239 bp

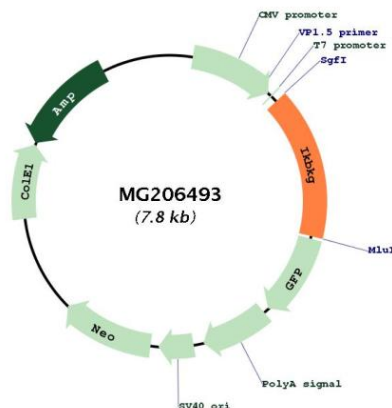
**Locus ID:** 16151

**UniProt ID:** [O88522](#)

**Cytogenetics:** X A7.3

**Gene Summary:** Regulatory subunit of the IKK core complex which phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor. Its binding to scaffolding polyubiquitin seems to play a role in IKK activation by multiple signaling receptor pathways. Also considered to be a mediator for TAX activation of NF-kappa-B. Could be implicated in NF-kappa-B-mediated protection from cytokine toxicity. Involved in TLR3- and IFIH1-mediated antiviral innate response; this function requires 'Lys-27'-linked polyubiquitination.[UniProtKB/Swiss-Prot Function]

## Product images:



Circular map for MG206493