

Product datasheet for **MG227220**

Ikbgk (NM_001161422) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ikbgk (NM_001161422) 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: >MG227220 representing NM_001161422
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGCGGTGCCTTGAAAATGGGACACTGTCCTGTTGGATGAACAAGCACCCCTGGAAGAACCAGCTGAGTG
 AGATGGTGCAGCCAGTGGTGGCCAGCAGAGGACCAGGACATGCTGGTGAAGAATCTTCTCTGGGAA
 GCCTGCAATGCTACATCTGCCTCAGAGCAGGGTACTCCTGAGACCCCTCAGCGCTGCCTGGAAGAGAAT
 CAAGAGCTCCGAGACGCTATCCGGCAGAGCAATCAGATGCTGAGGGAACGCTGTGAGGAGCTGCTGCATT
 TCCAGGTACGCCAGCGGAGGAGAAGGAGTTCCCTTATGTGCAAAATCCAGGAAGCCCGGAAGCTGGTGGA
 GAGACTGAGCTTGAGAGAAGCTTGATCTTCGGAGTCAGAGGGAACAGGCCTTAAAGGAGTTGGAGCAACTG
 AAGAAATGCCAACAGCAGATGGCTGAGGACAAGGCCTCTGTGAAAGCTCAGGTGACATCATTGCTCGGAG
 AACTCCAGGAGAGCCAGAGCCGTTTGGAGGCTGCCACCAAGGATCGGCAAGCTTTAGAGGGAAGGATTTCG
 AGCAGTTAGTGAGCAGGTGAGACAGCTGGAGAGTGAGCGGGAGGTGCTACAGCAGCAGCACAGCCTCCAG
 GTGGACCAGCTGCGTATGCAGAACCAGAGCGTGGAGGCTGCCTTGCGAATGGAGCGGCAGGCTGCTTCAG
 AGGAGAAGCGGAAGCTGGCTCAGTTGCAGGCAGCCTATCACCAGCTCTTCCAAGACTACGACAGCCACAT
 TAAGAGCAGCAAGGGCATGCAGCTGGAAGATCTGAGGCAACAGCTCCAGCAAGCTGAGGAGGCCCTGGTA
 GCCAAACAGGAATTGATTGATAAGCTGAAAGAGGAGGCTGAGCAGCACAAGATTGTGATGGAGACTGTGC
 CAGTCTTGAAGGCCAGCGGATATCTACAAGGCTGACTTCCAAGCTGAGAGGCATGCCCGGAGAGAGCT
 GGTGGAGAAGAAGGAGTATTTGCAGGAGCAGCTGGAGCAGCTGCAGCGGAGTTCAACAAGCTGAAAGTT
 GGCTGCCATGAGTCAGCCAGGATTGAGGATATGAGGAAGCGGCATGTAGAGACTCCCAGCCTCCTTTAC
 TCCCTGCTCCAGCTCACCCTCCTTTCAATTTGGCCTTGCCAACCAGCGGAGGAGCCCTCCTGAAGAACC
 TCCTGACTTCTGTGTCGAAGTCCAGTATCAGGCTCCTGATATGGACTCTACAGATACATGTCATG
 GATGCATAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227220 representing NM_001161422
Red=Cloning site Green=Tags(s)

MRCLENGLTSCWMNKHPWKNQLSEMVQPSGGPAEDQDMLGEESSLGKPAMLHLPSEQGTPELQRCLEEN
 QELRDAIRQSNQMLRERCEELLHFQVSQREEKEFLMCKFQEARKLVERLSLEKLDLRSQREQALKELEQL
 KKCOQQMAEDKASVKAQVTSLLGELQESQSRLEAATKDRQALEGRIRAVSEQVRQLESEREVLQQQHSVQ
 VDQLRMQNQSVEAALRMRQAASEEKRLAQLQAAYHQLFQDYDSHIKSSKGMQLEDLRRQLQQAAEALV
 AKQELIDKLEAEQHKIVMETVPVLKAQADIYKADFQAERHAREKLVEKKEYLQEQLQREFNKLKV
 GCHESARIEDMRKRHVETPQPPLLPAHAHSHFLALSNQRRSPPEEPPDFCCPKCQYQAPDMDTLQIHVM
 ECIE

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001161422

ORF Size: 1272 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_001161422.1](#), [NP_001154894.1](#)

RefSeq Size: 6736 bp

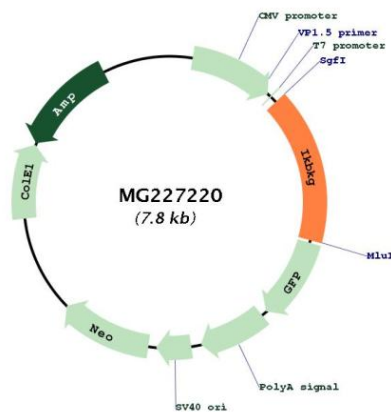
RefSeq ORF: 1275 bp

Locus ID: 16151

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 MG227220