

Product datasheet for MR227206

Ikbkg (NM_010547) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Ikbkg (NM_010547) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Ikbkg
Synonyms: 1110037D23Rik; AI848108; AI851264; AW124339; IKK[g]; NEMO
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR227206 representing NM_010547
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAACAAGCACCCCTGGAAGAACCAGCTGAGTGAGATGGTGCAGCCCAGTGGTGGCCAGCAGAGGACC
 AGGACATGCTGGGTGAAGAATCTTCTCTGGGAAGCCTGCAATGTACATCTGCCTTCAGAGCAGGGTAC
 TCCTGAGACCCCTCCAGCGCTGCCTGGAAGAGAATCAAGAGCTCCGAGACGCTATCCGGCAGAGCAATCAG
 ATGCTGAGGGAACGCTGTGAGGAGCTGCTGCATTTCCAGGTCCAGCAGCGGGAGGAGAAGGAGTTCTTA
 TGTGCAAATTCAGGAAGCCCGAAGCTGGTGGAGAGACTGAGCTTGGAGAAGCTTGATCTTCGGAGTCA
 GAGGGAACAGGCCTTAAAGGAGTTGGAGCAACTGAAGAAATGCCAACAGATGGCTGAGGACAAGGCCTCT
 GTGAAAGCTCAGGTGACATCATTGCTCGGAGAACTCCAGGAGAGCCAGAGCCGTTTGGAGGCTGCCACCA
 AGGATCGGCAAGCTTTAGAGGGAAGGATTCGAGCAGTTAGTGAGCAGGTGAGACAGCTGGAGAGTGAGCG
 GGAGGTGCTACAGCAGCAGCACAGCGTCCAGGTGGACCAGCTGCGTATGCAGAACCAGAGCGTGGAGGCT
 GCCTTGCGAATGGAGCGGCAGGCTGCTTCAGAGGAGAAGCGGAAGCTGGCTCAGTTGCAGGCAGCCTATC
 ACCAGCTCTTCCAAGACTACGACAGCCACATTAAGAGCAGCAAGGGCATGCAGCTGGAAGATCTGAGGCA
 ACAGCTCCAGCAAGCTGAGGAGGCCCTGGTAGCCAAACAGGAATTGATTGATAAGCTGAAAGAGGAGGCT
 GAGCAGCACAAAGATTGTGATGGAGACTGTCCAGTCTTGAAGGCCAGGGGATATCTACAAGGCTGACT
 TCCAAGCTGAGAGGCATGCCCGGAGAAGCTGGTGGAGAAGAAGGAGTATTTGCAGGAGCAGCTGGAGCA
 GCTGCAGCGCAGTTCAACAAGCTGAAAGTTGGCTGCCATGAGTCAGCCAGGATTGAGGATATGAGGAAG
 CGGCATGTAGAGACTCCCAGCCTCCTTACTCCCTGCTCCAGCTCACCCTCCTTTCAATTTGGCCTTGT
 CCAACCAGCGGAGGAGCCCTCCTGAAGAACCCTGACTTCTGTTGTCCGAAGTGCCAGTATCAGGCTCC
 TGATATGGACACTCTACAGATACATGTCATGGAGTGCATAGAG

ACGGTACGGCGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR227206 representing NM_010547
Red=Cloning site Green=Tags(s)

MNKHPWKNQLSEMVQPSGGPAEDQDMLGEESSLGKPAMLHLPSEQGTPETLQRCLEENQELRDAIRQSNQ
 MLRERCEELLHFQVSQREEKEFLMCKFQEARKLVERLSLEKLDLRSQREQALKELEQLKKCQQMAEDKAS
 VKAQVTSLLGELQESQSRLEAATKDRQALEGRIRAVSEQVRQLESEREVLQQQHSVQVDQLRMQNSVEA
 ALRMRQAASEEKRKLALQAAHYHQLFQDYDSHIKSSKGMQLEDLRQQLQAAEEALVAKQELIDKLKEEA
 EQHKIVMETVPVLKAQADIYKADFQAERHAREKLVEKKEYLQEQLQLQREFNKLKVGCHESARIEDMRK
 RHVETPQPPLLPAPAHHSFHLALSNQRRSPPEEPPDFCCPKCQYQAPMDTLQIHVMCEIE

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_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.

RefSeq: [NM_010547.1](#), [NM_010547.2](#), [NP_034677.2](#)

RefSeq Size: 6814 bp

RefSeq ORF: 1239 bp

Locus ID: 16151

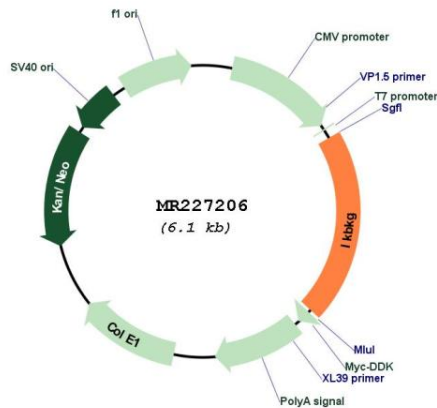
UniProt ID: [O88522](#)

Cytogenetics: X A7.3

MW: 47.8 kDa

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 MR227206