

## Product datasheet for MR227217

### Ikbkg (NM\_001161421) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ikbkg (NM_001161421) 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:	>MR227217 representing NM_001161421 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAACAAGCACCCCTGGAAGAACCAGCTGAGTGAGATGGTGCAGCCCAGTGGTGGCCAGCAGAGGACC  
AGGACATGCTGGGTGAAGAATCTTCTCTGGGAAGCCTGCAATGTACATCTGCCTTCAGAGCAGGGTAC  
TCCTGAGACCCCTCAGCGCTGCCTGGAAGAGAATCAAGAGCTCCGAGACGCTATCCGGCAGAGCAATCAG  
ATGCTGAGGGAACGCTGTGAGGAGCTGCTGCATTTCCAGGTGAGCCAGCGGGAGGAGAAGGAGTTCTTA  
TGTGCAAATTCAGGAAGCCCGAAGCTGGTGGAGAGACTGAGCTTGGAGAAGCTTGATCTTCGGAGTCA  
GAGGGAACAGGCCTTAAAGGAGTTGGAGCAACTGAAGAAATGCCAACAGATGGCTGAGGACAAGGCCTCT  
GTGAAAGCTCAGGTGACATCATTGCTCGGAGAACTCCAGGAGAGCCAGAGCCGTTTGGAGGCTGCCACCA  
AGGATCGGCAAGCTTTAGAGGGAAGGATTCCAGCAGTTAGTGAGCAGGTGAGACAGCTGGAGAGTGAGCG  
GGAGGTGCTACAGCAGCAGCACAGCGTCCAGGTGGACCAGCTGCGTATGCAGAACCAGAGCGTGGAGGCT  
GCCTTGCGAATGGAGCGGCAGGCTGCTTCAGAGGAGAAGCGGAAGCTGGCTCAGTTGCAGGCAGCCTATC  
ACCAGCTCTTCCAAGACTACGACAGCCACATTAAGAGCAGCAAGGCATGCAGCTGGAAGATCTGAGGCA  
ACAGCTCCAGCAAGCTGAGGAGGCCCTGGTAGCCAAACAGGAATTGATTGATAAGCTGAAAGAGGAGGCT  
GAGCAGCACAAGATTGTGATGGAGACTGTCCAGTCTTGAAGGCCAGGCGGATATCTACAAGGCTGACT  
TCCAAGCTGAGAGGCATGCCCGGAGAAGCTGGTGGAGAAGAAGGAGTATTTGCAGGAGCAGCTGGAGCA  
GCTGCAGCGCAGTTCAACAAGCTGAAAGTTGGCTGCCATGAGTCAGCCAGGATTGAGGATATGAGGAAG  
CGGCATGTAGAGACTCCCAGCCTCCTTACTCCCTGCTCCAGCTCACCCTCCTTTCAATTTGGCCTTGT  
CCAACCAGCGGAGGAGCCCTCCTGAAGAACCTCCTGACTTCTGTTGTCCGAAGTGCCAGTATCAGGCTCC  
TGATATGGACACTCTACAGATACATGTCATGGAGTGCATAGAG

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR227217 representing NM\_001161421  
 Red=Cloning site Green=Tags(s)

MNKHPWKNQLSEMVQPSGGPAEDQDMLGEESSLGKPAMLHLPSEQGTPETLQRCLEENQELRDAIRQSNQ  
 MLRERCEELLHFQVSQREEKEFLMCKFQEARKLVERLSLEKLDLRSQREQALKELEQLKKCQQMAEDKAS  
 VKAQVTSLLGELQESQSRLEAATKDRQALEGRIRAVSEQVRQLESEREVLQQQHSVQVDQLRMQNSVEA  
 ALRMRQAASEEKRKLALQAAHYHQLFQDYDSHIKSSKGMQLEDLRQQLQQAEEALVAKQELIDKLKEEA  
 EQHKIVMETVPVLKAQADYKADFQAERHAREKLVEKKEYLQEQLQREFNKLKVGCHESARIEDMRK  
 RHVETQPPLLPAPAHHSFHLALSNQRRSPPEEPPDFCCPKCQYQAPMDTLQIHVMECIE

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\_001161421

**ORF Size:** 1287 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 Size:** 6915 bp

**RefSeq ORF:** 1290 bp

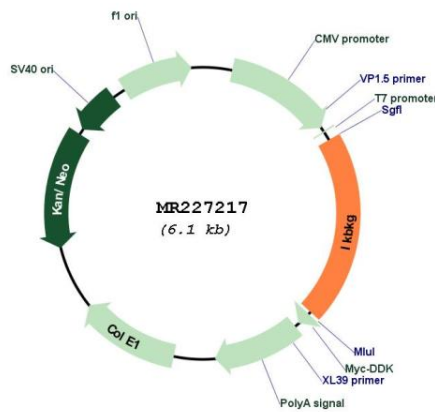
**Locus ID:** 16151

**Cytogenetics:** X A7.3

**MW:** 50.5 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 MR227217