

## Product datasheet for MR227224

### Ikbkg (NM\_001161423) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ikbkg (NM_001161423) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ikbkg
Synonyms:	1110037D23Rik; AI848108; AI851264; AW124339; IKK[g]; NEMO
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR227224 representing NM_001161423 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGAACAAGCACCCCTGGAAGAACCAGCTGAGTGAGATGGTGCAGCCCAGTGGTGGCCAGCAGAGGACC  
AGGACATGCTGGGTGAAGAATCTTCTCTGGGAAGCCTGCAATGCTACATCTGCCTTCAGAGCAGGGTAC  
TCCTGAGACCCTCCAGCGCTGCCTGGAAGAGAATCAAGAGCTCCGAGACGCTATCCGGCAGAGCAATCAG  
ATGCTGAGGGAACGCTGTGAGGAGCTGCTGCATTTCCAGGTGAGCCAGCGGGAGGAGAAGGAGTTCCCTTA  
TGTGCAAATCCAGGAAGCCCGGAAGCTGGTGGAGAGACTGAGCTTGGAGAAGCTTGATCTTCGGAGTCA  
GAGGGAACAGGCCTTAAAGGAGTTGGAGCAACTGAAGAAATGCCAACAGATGGCTGAGGACAAGGCCTCT  
GTGAAAGCTCAGGTGACATCATTGCTCGGAGAAGCTCCAGGAGAGCCAGAGCCGTTTGGAGGCTGCCACCA  
AGGATCGGCAAGCTTTAGAGGGAAGGATTCGAGCAGTTAGTGAGCAGGTCAGACAGCTGGAGAGTGAGCG  
GGAGGTGCTACAGCAGCAGCACAGCGTCCAGGTGGACCAGCTGCGTATGCAGAACCAGAGCGTGGAGGCT  
GCCTTGCGAATGGAGCGCAGGCTGCTTCAGAGGAGAAGCGGAAGCTGGCTCAGTTGCAGGCAGCCTATC  
ACCAGCTTTCCAAGACTACGACAGCCACATTAAGAGCAGCAAGGCATGCAGCTGGAAGATCTGAGGCA  
ACAGCTCCAGCAAGCTGAGGAGGCCCTGGTAGCCAACAGGAATTGATTGATAAGCTGAAAGAGGAGGCT  
GAGCAGCAACAAGATTGTGATGGAGACTGTGCCAGTCTTGAAGGCCAGGCGGATATCTACAAGGCTGACT  
TCCAAGCTGAGAGGCATGCCCGGAGAAGCTGGTGGAGAAGAAGGAGTATTTGCAGGAGCAGCTGGAGCA  
GCTGCAGCGCAGTTCAACAAGCTGAAAGTTGGCTGCCATGAGTCAGCCAGGATTGAGGATATGAGGAAG  
CGGCATGTAGAGACTCCCAGCCTCCTTACTCCCTGCTCCAGCTCACCCTCCTTTCAATTTGCCCTTGT  
CCAACCAGCGGAGGAGCCCTCCTGAAGAACCTCCTGACTTCTGTTGTCCGAAGTGCCAGTATCAGGCTCC  
TGATATGGACACTCTACAGATACATGTCATGGAGTGCATAGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR227224 representing NM\_001161423  
Red=Cloning site Green=Tags(s)

MNKHPWKNQLSEMVQPSGGPAEDQDMLGEESSLGKPAMLHLPSEQGTPELQRCLEENQELRDAIRQSNQ  
 MLRERCEELLHFQVSQREEKEFLMCKFQEARKLVERLSLEKLDLRSQREQALKELEQLKKCQQMAEDKAS  
 VKAQVTSLLGELQESQSRLEAATKDRQALEGRIRAVSEQVRQLESEREVLQQQHSVQVDQLRMQNSVEA  
 ALRMRQAASEEKRLAQLQAAHYHQLFQDYDHIKSSKGMQLEDLRQQLQQAEEALVAKQELIDKLKEEA  
 EQHKIVMETVPVLAQADIYKADFQAERHAREKLVEKKEYLQEQLQREFNKLKVGCHESARIEDMRK  
 RHVETPQPPLLPAPAHHSFHLALSNQRRSPPEEPPDFCCPKCQYQAPDMDTLQIHVMECIE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

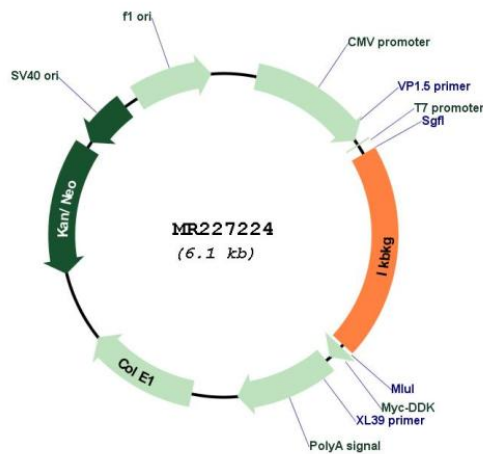
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001161423

<b>ORF Size:</b>	1233 bp
<b>OTI Disclaimer:</b>	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<a href="#">NM_001161423.1</a> , <a href="#">NP_001154895.1</a>
<b>RefSeq Size:</b>	6788 bp
<b>RefSeq ORF:</b>	1239 bp
<b>Locus ID:</b>	16151
<b>UniProt ID:</b>	<a href="#">O88522</a>
<b>Cytogenetics:</b>	X A7.3
<b>MW:</b>	48.4 kDa
<b>Gene Summary:</b>	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]