

Product datasheet for **MG227210**

Ikbkg (NM_178590) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ikbkg (NM_178590) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Ikbkg
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:	>MG227210 representing NM_178590 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAACAAGCACCCCTGGAAGAACCAGCTGAGTGAGATGGTGCAGCCCAGTGGTGGCCAGCAGAGGACC
AGGACATGCTGGTGAAGAATCTTCTCTGGGAAGCCTGCAATGTACATCTGCCTTCAGAGCAGGGTAC
TCCTGAGACCCCTCAGCGCTGCCTGGAAGAGAATCAAGAGCTCCGAGACGCTATCCGGCAGAGCAATCAG
ATGCTGAGGGAACGCTGTGAGGAGCTGCTGCATTTCCAGGTGAGCCAGCGGGAGGAGAAGGAGTTCTTA
TGTGCAAATTCAGGAAGCCCGAAGCTGGTGGAGAGACTGAGCTTGGAGAAGCTTGATCTTCGGAGTCA
GAGGGAACAGGCCTTAAAGGAGTTGGAGCAACTGAAGAAATGCCAACAGATGGCTGAGGACAAGGCCTCT
GTGAAAGCTCAGGTGACATCATTGCTCGGAGAACTCCAGGAGAGCCAGAGCCGTTTGGAGGCTGCCACCA
AGGATCGGCAAGCTTTAGAGGGAAGGATTCGAGCAGTTAGTGAGCAGGTGAGACAGCTGGAGAGTGAGCG
GGAGGTGCTACAGCAGCAGCACAGCGTCCAGGTGGACCAGCTGCGTATGCAGAACCAGAGCGTGGAGGCT
GCCTTGCGAATGGAGCGGCAGGCTGCTTCAGAGGAGAAGCGGAAGCTGGCTCAGTTGCAGGCAGCCTATC
ACCAGCTCTTCCAAGACTACGACAGCCACATTAAGAGCAGCAAGGGCATGCAGCTGGAAGATCTGAGGCA
ACAGCTCCAGCAAGCTGAGGAGGCCCTGGTAGCCAAACAGGAATTGATTGATAAGCTGAAAGAGGAGGCT
GAGCAGCACAAGATTGTGATGGAGACTGTCCAGTCTTGAAGGCCAGGGGATATCTACAAGGCTGACT
TCCAAGCTGAGAGGCATGCCCGGAGAAGCTGGTGGAGAAGAAGGAGTATTTGCAGGAGCAGCTGGAGCA
GCTGCAGCGCAGTTCAACAAGCTGAAAGTTGGCTGCCATGAGTCAGCCAGGATTGAGGATATGAGGAAG
CGGCATGTAGAGACTCCCAGCCTCCTTACTCCCTGCTCCAGCTCACCCTCCTTTCAATTTGGCCTTGT
CCAACCAGCGGAGGAGCCCTCCTGAAGAACCTCCTGACTTCTGTTGTCCGAAGTGCCAGTATCAGGCTCC
TGATATGGACACTCTACAGATACATGTCATGGAGTGCATAGAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG227210 representing NM_178590
 Red=Cloning site Green=Tags(s)

MNKHPWKNQLSEMVQPSGGPAEDQDMLGEESSLGKPAMLHLPSEQGTPELQRCLEENQELRDAIRQSNQ
 MLRERCEELLHFQVSQREEKEFLMCKFQEARKLVERLSLEKLDLRSQREQALKELEQLKKCQQMAEDKAS
 VKAQTSLGELQESQSRLEAATKDRQALEGRIRAVSEQVRQLESEREVLQQHSVQVDQLRMQNQSVEA
 ALRMRQAASEEKRKLAQLQAAHYHLFQDYDHSIKSSKGMQLEDLRQQLQQAEEALVAKQELIDKLKEEA
 EQHKIVMETVPVLKAQADIYKADFQAERHAREKLVEKKEYLQEQLQREFNKLKVGCHESARIEDMRK
 RHVETPQPPLLPAPAHHSFHLALSNQRRSPPEPPDFCCPKCQYQAPMDTLQIHVMECIE

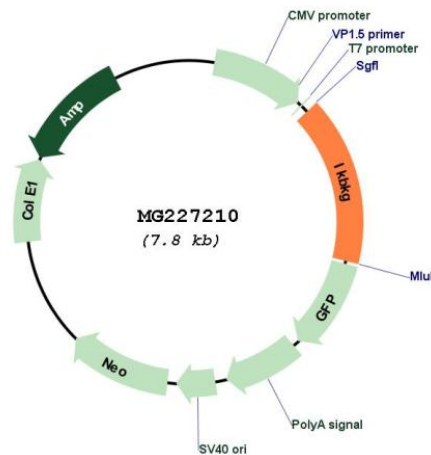
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_178590

ORF Size:	1233 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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:	<ol style="list-style-type: none"> 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_178590.4 , NP_848705.1
RefSeq Size:	6811 bp
RefSeq ORF:	1236 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]