

Product datasheet for **RG218044**

IKK gamma (IKBKG) (NM_001099857) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKK gamma (IKBKG) (NM_001099857) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IKK gamma
Synonyms:	AMCBX1; EDAID1; FIP-3; FIP3; Fip3p; IKK-gamma; IKKAP1; IKKG; IMD33; IP; IP1; IP2; IPD2; NEMO; ZC2HC9
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218044 representing NM_001099857
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAATAGGCACCTCTGGAAGAGCCAAGTGTGTGAGATGGTGCAGCCAGTGGTGGCCCGCAGCAGATC
 AGGACGTACTGGGCGAAGAGTCTCCTCTGGGGAAGCCAGCCATGCTGCACCTGCCTCAGAACAGGGCGC
 TCCTGAGACCCTCCAGCGCTGCCTGGAGGAGAATCAAGAGCTCCGAGATGCCATCCGGCAGAGCAACCAG
 ATTCTGCGGGAGCGCTGCGAGGAGCTTCTGCATTTCCAAGCCAGCCAGAGGGAGGAGAAGGAGTTCTCA
 TGTGCAAGTTCCAGGAGGCCAGGAACTGGTGGAGAGACTCGGCCTGGAGAAGCTCGATCTGAAGAGGCA
 GAAGGAGCAGGCTCTGCGGGAGGTGGAGCACCTGAAGAGATGCCAGCAGCAGATGGCTGAGGACAAGGCC
 TCTGTGAAAGCCAGGTGACGTCTTGTCTCGGGAGCTGCAGGAGAGCCAGAGTCGCTTGGAGGCTGCCA
 CTAAAGGAATGCCAGGCTCTGGAGGGTGGGCCCCGGCCAGCAGCAGGCGCGGCAGCTGGAGAGTGA
 GCGCGAGGCGCTGCAGCAGCAGCACAGCGTGCAGGTGGACCAGCTGCGCATGCAGGGCCAGAGCGTGGAG
 GCCGCGCTCCGCATGGAGCGCCAGGCCGCTCGGAGGAGAAGAGGAAGCTGGCCAGTTGCAGGTGGCCT
 ATCACCAGCTCTTCCAAGAATACGACAACCACATCAAGAGCAGCGTGGTGGGCGAGTGAGCGGAAGCGAGG
 AATGCAGCTGGAAGATCTCAAACAGCAGCTCCAGCAGGCCAGGAGGCCCTGGTGGCCAAACAGGAGGTG
 ATCGATAAGCTGAAGGAGGAGGCCGAGCAGCACAAGATTGTGATGGAGACCGTTCCGGTGTGAAGGCC
 AGGCGGATATCTACAAGCGGACTTCCAGGCTGAGAGGCGAGGCCGGGAGAAGCTGGCCGAGAAGAAGGA
 GCTCCTGCAGGAGCAGCTGGAGCAGCTGCAGAGGGAGTACAGCAAACCTGAAGGCCAGCTGTCAGGAGTGC
 GCCAGGATCGAGGACATGAGGAAGCGGCATGTCGAGGTCTCCAGGCCCTTCCCCCCCCCTGCTGCTG
 ACCTCTCTCTCCCCTGGCCCTGCCAGCCAGAGGAGGAGCCCCCCCCGAGGAGCCACCTGACTTCTGCTG
 TCCAAGTGCCAGTATCAGGCCCTGATATGGACACCTGCAGATACATGTCATGGAGTGCATTGAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218044 representing NM_001099857
 Red=Cloning site Green=Tags(s)

MNRHLWKSQ LCEMVQPSGGPAADQDVLGEESPLGKPAMLHLPSEQGAPETLQRCLLENQELRDAIRQSNQ
 ILRERCEELLHFQASQREEKEFLMCKFQEARKLVERLGLEKLDLKRQKEQALREVEHLKRCQQQMAEDKA
 SVKAQVTSLLGELQESQSRLEAATKECQALEGRARAASEQARQLESEREALQQQHSVQVDQLRMQGSVE
 AALRMERQAASEEKRLAQLQVAYHQLFQEYDNHIKSSVVGSRKRMQLEDLKQQLQQAEEALVAKQEV
 IDKLKEEAQHKIVMETVPVLKAQADIYKADFQAERQAREKLAEKKELLQEQLQREYSKLGKASCQES
 ARIEDMRKRHVEVSQAPLPPAPAYLSSPLALPSQRRSPPEEPPDFCCPKCQYQAPMDTLQIHVMECIE

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001099857

ORF Size: 1257 bp

OTI Disclaimer: 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.

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.

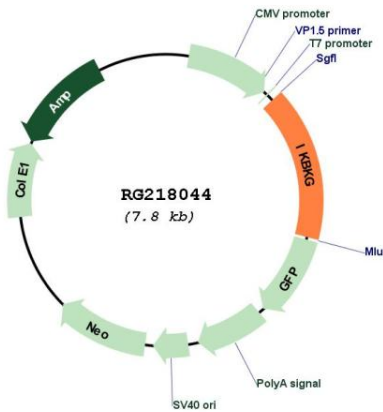
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

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_001099857.5](#)
RefSeq Size: 2279 bp
RefSeq ORF: 1260 bp
Locus ID: 8517
UniProt ID: [Q9Y6K9](#)
Cytogenetics: Xq28
Protein Families: Druggable Genome, Transcription Factors
Protein Pathways: Acute myeloid leukemia, Adipocytokine signaling pathway, Apoptosis, B cell receptor signaling pathway, Chemokine signaling pathway, Chronic myeloid leukemia, Cytosolic DNA-sensing pathway, Epithelial cell signaling in Helicobacter pylori infection, MAPK signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Primary immunodeficiency, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway
Gene Summary: This gene encodes the regulatory subunit of the inhibitor of kappaB kinase (IKK) complex, which activates NF-kappaB resulting in activation of genes involved in inflammation, immunity, cell survival, and other pathways. Mutations in this gene result in incontinentia pigmenti, hypohidrotic ectodermal dysplasia, and several other types of immunodeficiencies. A pseudogene highly similar to this locus is located in an adjacent region of the X chromosome. [provided by RefSeq, Mar 2016]

Product images:



Circular map for RG218044