

Product datasheet for RC201743

OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

IKK gamma (IKBKG) (NM_003639) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids

Product Name: IKK gamma (IKBKG) (NM_003639) Human Tagged ORF Clone

Tag: Myc-DDK
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-Entry (PS100001)

E. coli Selection: Kanamycin (25 ug/mL)



ORF Nucleotide Sequence:

>RC201743 ORF sequence

Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC

ATGAATAGGCACCTCTGGAAGAGCCAACTGTGTGAGATGGTGCAGCCCAGTGGTGGCCCGGCAGCAGATC TCCTGAGACCCTCCAGCGCTGCCTGGAGGAGAATCAAGAGCTCCGAGATGCCATCCGGCAGAGCAACCAG TGTGCAAGTTCCAGGAGGCCAGGAAACTGGTGGAGAGACTCGGCCTGGAGAAGCTCGATCTGAAGAGGCA GAAGGAGCAGGCTCTGCGGGAGGTGGAGCACCTGAAGAGATGCCAGCAGCAGATGGCTGAGGACAAGGCC TCTGTGAAAGCCCAGGTGACGTCCTTGCTCGGGGAGCTGCAGGAGACCCAGAGTCGCTTGGAGGCTGCCA CTAAGGAATGCCAGGCTCTGGAGGGTCGGGCCGGGCGGCCAGCGAGCAGGCGGCAGCTGGAGAGTGA GCGCGAGGCGCTGCAGCAGCAGCACCAGCTGCAGGTGGACCAGCTGCGCATGCAGGGCCAGAGCGTGGAG GCCGCGCTCCGCATGGAGCGCCAGGCCGCCTCGGAGGAGAAGAGGAAGCTGGCCCAGTTGCAGGTGGCCT ATCACCAGCTCTTCCAAGAATACGACAACCACATCAAGAGCAGCGTGGTGGGCAGTGAGCGGAAGCGAGG AATGCAGCTGGAAGATCTCAAACAGCAGCTCCAGCAGGCCGAGGAGGCCCTGGTGGCCAAACAGGAGGTG ATCGATAAGCTGAAGGAGGAGGCCGAGCACAAGATTGTGATGGAGACCGTTCCGGTGCTGAAGGCCC GCTCCTGCAGGAGCAGCTGGAGCAGCTGCAGAGGGAGTACAGCAAACTGAAGGCCAGCTGTCAGGAGTCG ACCTCTCCTCTCCCCTGGCCCTGCCCAGCCAGAGGAGGAGCCCCCCCGAGGAGCCACCTGACTTCTGCTG TCCCAAGTGCCAGTATCAGGCCCCTGATATGGACACCCTGCAGATACATGTCATGGAGTGCATTGAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATTACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201743 protein sequence
Red=Cloning site Green=Tags(s)

MNRHLWKSQLCEMVQPSGGPAADQDVLGEESPLGKPAMLHLPSEQGAPETLQRCLEENQELRDAIRQSNQ ILRERCEELLHFQASQREEKEFLMCKFQEARKLVERLGLEKLDLKRQKEQALREVEHLKRCQQQMAEDKA SVKAQVTSLLGELQESQSRLEAATKECQALEGRARAASEQARQLESEREALQQQHSVQVDQLRMQGQSVE AALRMERQAASEEKRKLAQLQVAYHQLFQEYDNHIKSSVVGSERKRGMQLEDLKQQLQQAEEALVAKQEV IDKLKEEAEQHKIVMETVPVLKAQADIYKADFQAERQAREKLAEKKELLQEQLEQLQREYSKLKASCQES ARIEDMRKRHVEVSQAPLPPAPAYLSSPLALPSQRRSPPEEPPDFCCPKCQYQAPDMDTLQIHVMECIE

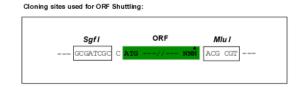
TRTRPLEOKLISEEDLAANDILDYKDDDDKV

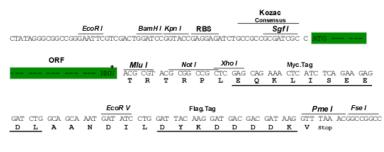
Chromatograms: https://cdn.origene.com/chromatograms/mk6093 c03.zip

Restriction Sites: Sgfl-Mlul



Cloning Scheme:





^{*} The last codon before the Stop codon of the ORF

ACCN: NM_003639

ORF Size: 1257 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with

0.22um filter is required.

RefSeg: NM 003639.4

RefSeq Size: 2123 bp
RefSeq ORF: 1260 bp
Locus ID: 8517



UniProt ID:Q9Y6K9Cytogenetics:Xq28Domains:zf-C2H2

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

MW: 48.2 kDa

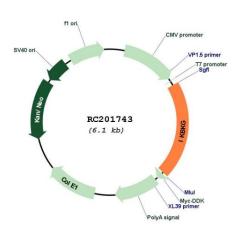
Gene Summary: This gene encodes the regulatory subunit of the inhibitor of kappaB kinase (IKK) complex,

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

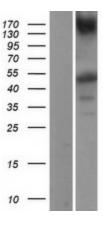
chromosome. [provided by RefSeq, Mar 2016]

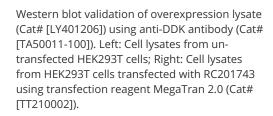
Product images:

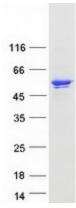


Circular map for RC201743

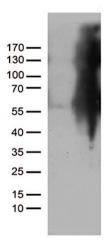








Coomassie blue staining of purified IKBKG protein (Cat# [TP301743]). The protein was produced from HEK293T cells transfected with IKBKG cDNA clone (Cat# RC201743) using MegaTran 2.0 (Cat# [TT210002]).



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IKBKG (Cat# RC201743, Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-IKBKG (Cat# [TA812459])(1:500). Positive lysates [LY401206] (100ug) and [LC401206] (20ug) can be purchased separately from OriGene.