

Product datasheet for **RC219154**

IKK beta (IKBKB) (NM_001556) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKK beta (IKBKB) (NM_001556) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IKBKB
Synonyms:	IKK-beta; IKK2; IKKB; IMD15; IMD15A; IMD15B; NFKBIKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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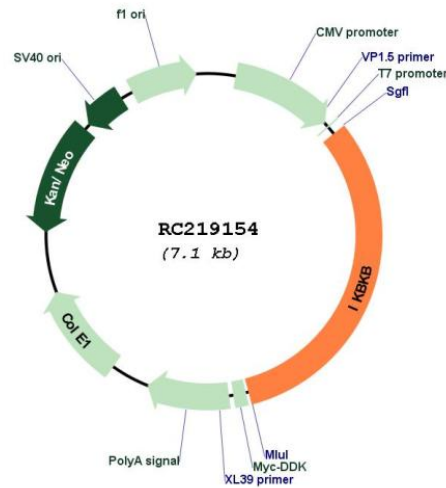
ORF Nucleotide Sequence:

>RC219154 representing NM_001556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGCTGGTACCTTCCCTGACAACGCAGACATGTGGGGCTGGGAAATGAAAGAGCGCCTTGGGACAG
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 CCCAATGTGGTGGCTGCCGAGATGTCCCTGAGGGGATGCAGAACTTGGCGCCCAATGACCTGCCCTGC
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ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Plasmid Map:


ACCN: NM_001556

ORF Size: 2268 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: [NM_001556.3](#)

RefSeq Size: 3916 bp

RefSeq ORF: 2271 bp

Locus ID: 3551

UniProt ID: [O14920](#)

Cytogenetics: 8p11.21

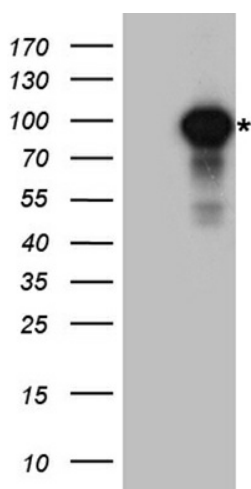
Protein Families: Druggable Genome, Protein Kinase, Transcription Factors

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, Insulin signaling pathway, MAPK signaling pathway, Neurotrophin signaling pathway, NOD-like receptor signaling pathway, Pancreatic cancer, Pathways in cancer, Prostate cancer, RIG-I-like receptor signaling pathway, Small cell lung cancer, T cell receptor signaling pathway, Toll-like receptor signaling pathway, Type II diabetes mellitus

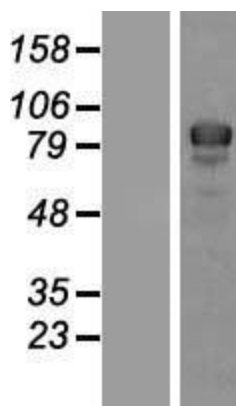
MW: 86.4 kDa

Gene Summary: The protein encoded by this gene phosphorylates the inhibitor in the inhibitor/NF-kappa-B complex, causing dissociation of the inhibitor and activation of NF-kappa-B. The encoded protein itself is found in a complex of proteins. Several transcript variants, some protein-coding and some not, have been found for this gene. [provided by RefSeq, Sep 2011]

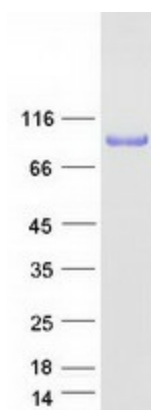
Product images:



HEK293T cells were transfected with the pCMV6-ENTRY control (Cat# [PS100001], Left lane) or pCMV6-ENTRY IKBKB (Cat# RC219154, 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-*IKBKB* antibody (Cat# [TA890128]). Positive lysates [LY419865] (100ug) and [LC419865] (20ug) can be purchased separately from OriGene.



Western blot validation of overexpression lysate (Cat# [LY419865]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC219154 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified IKBKB protein (Cat# [TP319154]). The protein was produced from HEK293T cells transfected with IKBKB cDNA clone (Cat# RC219154) using MegaTran 2.0 (Cat# [TT210002]).