

Product datasheet for **RG219154**

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:	TurboGFP
Symbol:	IKK beta
Synonyms:	IKK-beta; IKK2; IKKB; IMD15; IMD15A; IMD15B; NFKBIKB
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG219154 representing NM_001556
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCTGGTACCTTCCCTGACAACGCAGACATGTGGGGCTGGGAAATGAAAGAGCGCCTTGGGACAG
 GGGGATTTGGAAATGTCATCCGATGGCACAATCAGGAAACAGGTGAGCAGATTGCCATCAAGCAGTGCCG
 GCAGGAGCTCAGCCCCGGAACCGAGAGCGGTGGTGCCTGGAGATCCAGATCATGAGAAGCTGACCCAC
 CCCAATGTGGTGGCTGCCGAGATGTCCCTGAGGGGATGCAGAACTTGGCGCCCAATGACCTGCCCTGC
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 CTCGCTTCTTCCAGCTGAGGAAGGTGTGGGGCCAGGTCTGGCACAGCATCCAGACCCTGAAGGAAGATT
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 TCTGGAATCTCCTGAAGATTGCTTGTAGCAAGTCCGTGGTCTGTGAGTGAAGCCCGGATAGCATGAA
 TGCCTCTGACTTAGCCAGCCTGGGCAGCTGATGTCTCAGCCCTCCACGGCCTCCAACAGCTTACCTGAG
 CCAGCCAAGAAGAGTGAAGAAGTGGTGGCTGAAGCACATAACCTCTGCACCCTGTAGAAAATGCCATAC
 AGGACTGTGAGGGAACAAGACCAGAGTTTACGGCCCTAGACTGGAGCTGGTTACAGACGGAAGAAGA
 AGAGCACAGCTGCCTGGAGCAGGCCTCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG219154 representing NM_001556
Red=Cloning site Green=Tags(s)

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MSWSPSLTTQTCGAWEMKERLGTGGFGNVIRWHNQETGEQIAIKQCRQELSPNRERWCLEIQIMRRLTH
PNVVAARDVPEGMQNLAPNDLPLLAMEYCQGGDLRKYLNQFENCCLREGAILTLLSDIASALRYLHENR
IIHRDLKPENIVLQQGEQRLIHKIIDLGYAKELDQGSLECTSFVGTLYLAPELLEQQKYTVTVDYWSFGT
LAFECITGFRPFLPNWQPVQWHSKVRQKSEVDIVVSEDLNGTVKFSSSLPYPNNLSVLAERLEKWLQLM
LMWHRPQRGTDPTYGPNCGCFKALDDILNLKLVHILNMVTGTIHTYPVTEDESLQSLKARIQQDTGIPEED
QELLQEAGLALIPDKPATQCISDGKLNEGHTLDMDLVFLFDNSKITIYETQISPRPQESVSCILQEPKRN
LAFFQLRKVWGQVWHSIQTLKEDCNRLQQGQRAAMNLLRNNSCLSKMKNSMASMSQQLKAKLDFFKTSI
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DDLEEQARELYRRLREKPRDQRTEGDSQEMVRLLLQAIQSFEEKVRVIYTLQSKTVVCKQKALELLPKVE
EVSLSMNEDEKTVVRLQEKQKELWNLLKIACSKVRGPVSGSPDSMNASRLSQPGQLMSQPSTASNSLPE
PAKKSEELVAEAHNLCTLENAIQDQTVREQDQSF TALDWSWLQTEEEEHSCLQAS
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



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](#)

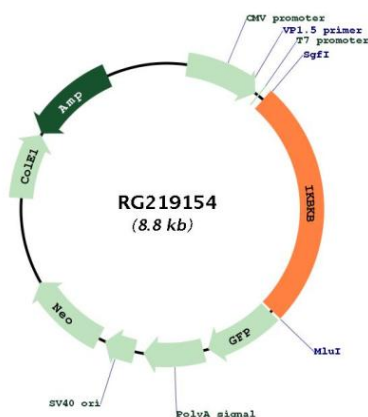
Cytogenetics: 8p11.21

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

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:



Circular map for RG219154

