

## Product datasheet for **RC233092**

### IKK beta (IKKB) (NM\_001242778) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	IKK beta (IKKB) (NM_001242778) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IKK beta
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:**

>RC233092 representing NM\_001242778  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGTCATCCGATGGCACAATCAGGCTGACCCACCCAATGTGGTGGCTGCCCGAGATGTCCCTGAGGGGA  
 TGCAGAACTTGGCGCCAATGACCTGCCCTGCTGGCCATGGAGTACTGCCAAGGAGGAGATCTCCGGAA  
 GTACCTGAACCAGTTTGAGAACTGCTGTGGTCTGCGGGAAGGTGCCATCCTCACCTTGCTGAGTGACATT  
 GCCTCTGCGCTTAGATACCTTCATGAAAACAGAATCATCCATCGGGATCTAAAGCCAGAAAAATCGTCC  
 TGCAGCAAGGAGAACAGAGGTTAATACACAAAATTATTGACCTAGGATATGCCAAGGAGCTGGATCAGGG  
 CAGTCTTTGCACATCATTGCTGGGGACCTGCAGTACCTGGCCCCAGAGCTACTGGAGCAGCAGAAGTAC  
 ACAGTGACCGTCGACTACTGGAGCTTCGGCACCTGGCCTTTGAGTGCATCACGGCTTCCGGCCCTTCC  
 TCCCAACTGGCAGCCCCTGCAGTGGCATTCAAAGTGCAGCAGAAGAGTGAGGTGGACATTGTTGTTAG  
 CGAAGACTTGAATGGAACGGTGAAGTTTTCAAGCTCTTTACCCTACCCAATAATCTTAACAGTGTCTGT  
 GCTGAGCGACTGGAGAAGTGGTGCAACTGATGCTGATGTGGCACCCCGACAGAGGGGCACGGATCCCA  
 CGTATGGGCCAATGGCTGCTTCAAGGCCCTGGATGACATCTTAAACTTAAAGCTGGTTCATATCTTGAA  
 CATGGTCACGGGCACCATCCACACCTACCTGTGACAGAGGATGAGAGTCTGCAGAGCTTGAAGGCCAGA  
 ATCCAACAGGACACGGGCATCCCAGAGGAGGACCAGGAGCTGCTGCAGGAAGCGGGCCTGGCGTTGATCC  
 CCGATAAGCCTGCCACTCAGTGTATTTACAGCGCAAGTTAAATGAGGGCCACACATTGGACATGGATCT  
 TGTTTTCTCTTTGACAACAGTAAAATCACCTATGAGACTCAGATCTCCACAGGCCCAACCTGAAAGT  
 GTCAGCTGTATCCTTCAAGAGCCCAAGAGGAATCTCGCCTTCTCCAGCTGAGGAAGGTGTGGGGCCAGG  
 TCTGGCACAGCATCCAGACCCCTGAAGGAAGATTGCAACCGGCTGCAGCAGGGACAGCGAGCCGCCATGAT  
 GAATCTCCTCCGAAACAACAGCTGCCTCTCCAAAATGAAGAATTCCATGGCTTCCATGTCTCAGCAGCTC  
 AAGGCCAAGTTGGATTTCTTCAAAAACAGCATCCAGATTGACCTGGAGAAGTACAGCGAGCAAACCGAGT  
 TTGGGATCACATCAGATAAACTGCTGCTGGCCTGGAGGGAAATGGAGCAGGCTGTGGAGCTCTGTGGGCG  
 GGAGAACGAAGTAAAACCTGTTGAGAACGGATGATGGCTCTGCAGACCGACATTGTGGACTTACAGAGG  
 AGCCCCATGGGCCGGAAGCAGGGGGAACGCTGGACGACCTAGAGGAGCAAGCAAGGGAGCTGTACAGGA  
 GACTAAGGGAAAAACCTCGAGACCAGCGAACTGAGGGTGACAGTCAGGAAATGGTACGGCTGCTGCTTCA  
 GGCAATTCAGAGCTTCGAGAAGAAAGTGCAGTATCTATACGCAGCTCAGTAAAATGTGGTTTGCAAG  
 CAGAAGGGCTGGAAGTGTGCCAAGGTGGAAGAGGTGGTGGAGCTTAATGAATGAGGATGAGAAGACTG  
 TTGTCCGCTGCAGGAGAAGCGGCAGAAGGAGCTCTGGAATCTCCTGAAGATTGCTGTAGCAAGGTCGG  
 TGGTCTGTGAGTGAAGCCCGGATAGCATGAATGCCTCTCGACTTAGCCAGCCTGGGCAGCTGATGCT  
 CAGCCCTCCACGGCTCCAACAGCTTACCTGAGCCAGCCAAGAAGAGTGAAGAAGTGGTGGCTGAAGCAC  
 ATAACCTCTGCACCCTGCTAGAAAATGCCATACAGGACTGTGAGGGAAACAAGACCAGAGTTTCACGGC  
 CCTAGACTGGAGCTGGTTACAGACGGAAGAAGAAGAGCACAGCTGCCTGGAGCAGGCCTCA

**ACGCGT**ACGCGGGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC233092 representing NM\_001242778  
Red=Cloning site Green=Tags(s)

MSSDGTIRLTHPNVVAARDVPEGMQNLAPNDLPLLAMEYCGGDLRKYLNQFENCCLREGAILTLLSDI  
 ASALRYLHENRIIHRDLKPENIVLQQGEQRLIHKIIDLGYAKELDQGSCLTSFVGTLYLAPELLEQQKY  
 TVTVDYWSFGTLAFECITGFRPFLPNWQPVQWHSKVRQKSEVDIVVSEDLNGTVKFSSSLPPYNNLNSVL  
 AERLEKWLQLMLMWHPRQRGTPTYGPNCGFKALDDILNLKLVHILNMVTGTIHTYPTVEDESLQSLKAR  
 IQQDTGIPEEDQELLQEAGLALIPDKPATQCISDGKLNHGHTLMDLVFLFDNSKITTYETQISPRQPES  
 VSCILQEPKRNLAFFQLRKVWGQVWHSIQTLKEDCNRLQQQRAAMNLLRNNSCLSKMKNSMASMSQQL  
 KAKLDFFKTSIQIDLEKYSEQTEFGITSDKLLAWREMEQAVELCGRENEVKLLVERMMALQTDIVDLQR  
 SPMGRKQGGTLDLLEEQAREL YRRLREKPRDQRTEGDSQEMVRLLLQAIQSFEKKVRVIYQLSKTVVCK  
 QKALELLPKVEEVVSLMNEDEKTVVRLQEKRQKELWNLLKIACSKVRGPVSGSPDSMNASRLSQPGQLMS  
 QPSTASNSLPEPAKKSEELVAEAHNLCTLLENAIQDQTVREQDQSFALDWSWLQTEEEHSCLEQAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001242778

**ORF Size:** 2091 bp

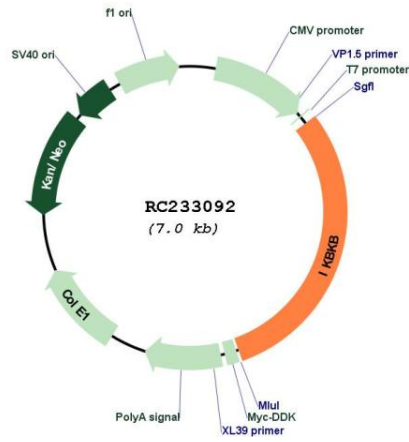
**OTI Disclaimer:** The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone 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).

<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001242778.2</a>
<b>RefSeq Size:</b>	4036 bp
<b>RefSeq ORF:</b>	2094 bp
<b>Locus ID:</b>	3551
<b>UniProt ID:</b>	<a href="#">O14920</a>
<b>Cytogenetics:</b>	8p11.21
<b>Protein Families:</b>	Druggable Genome, Protein Kinase, Transcription Factors
<b>Protein Pathways:</b>	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
<b>MW:</b>	80 kDa
<b>Gene Summary:</b>	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 RC233092