

Product datasheet for **RC231358**

IKBKE (NM_001193322) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKBKE (NM_001193322) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IKBKE
Synonyms:	IKK-E; IKK-i; IKKE; IKKI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RC231358 representing NM_001193322
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCAGAGCACAGCCAATTACCTGTGGCACACAGATGACCTGCTGGGGCAGGGGGCCACTGCCAGTGTGT
 ACAAGGCCCGCAACAAGAAATCCGGAGAGCTGGTTGCTGTGAAGGTCTTCAACACTACCAGCTACCTGCG
 GCCCGCGAGGTGCAGGTGAGGGAGTTTGGAGTCTGCGGAAGCTGAACCACCAGAACATTGTCAAGCTC
 TTTGCGGTGGAGGAGACGGGCGAAGCCGGCAGAAAGTACTGGTGTGAGTACTGCTCCAGTGGGAGCC
 TGCTGAGTGTGCTGGAGAGCCCTGAGAATGCCTTTGGGCTGCCTGAGGATGAGTTCCTGGTGGTGTGCG
 CTGTGTGGTGGCCGGCATGAACCACCTGCGGGGAGAACGGCATTGTGCATCGCGACATCAAGCCGGGAAC
 ATCATGCGCCTCGTAGGGGAGGAGGGGCAGAGCATCTACAAGCTGACAGACTTCGGCGCTGCCCGGGAGC
 TGGATGATGATGAGAAGTTCGTCTCGTCTATGGGACTGAGGAGTACCTGCATCCCGACATGTATGAGCG
 GCGGCTGCTTCGAAAGCCCGAGAAAAGCGTTCCGGGTGACTGTGGATCTCTGGAGCATTGGAGTGACC
 TTGTACCATGCAGCCACTGGCAGCCTGCCTTCACTCCCTTTGGTGGGCCACGGCGGAACAGGAGATCA
 TGTACCGGATCACCCAGGAGAAGCCGGCTGGGGCCATTGCAGGTGCCAGAGCGGGGAGAACGGGCCCT
 GGAGTGGAGCTACACCCTCCCCATCACCTGCCAGCTGTCACTGGGGCTGCAGAGCCAGCTGGTGGCCATC
 CTGGCCAAACATCTGGAGGTGGAGCAGGCCAAGTGTGGGGCTTCGACCAGTTCTTTGCGGAGACCAGTG
 ACATCTGCAGCGAGTTGTCTGCATGTCTTCCCTGTCCCAGGCAGTCTGCACCACATCTATATCCA
 TGCCCAACAACAGATAGCCATTTCCAGGAGCCGTGCACAAGCAGACCAGTGTGGCCCCCGACACCAG
 GAGTACCTCTTTGAGGGTCACTCTGTCTCGAGCCAGCGTCTCAGCACAGCACATCGCCACACGA
 CGGAAGCAGCCCCCTGACCCTTTCAGCACAGCCATCCCTAAGGGGCTGGCCTTCAGGGACCCTGTCT
 GGACGTCCCCAAGTTCGTCCCCAAAGTGGACCTGCAGGCGGATTACAACACTGCCAAGGGCGTGTGGGC
 GCCGGCTACCAGGCCCTGCGGCTGGCACGGCCCTGCTGGATGGGCAGGAGCTAATGTTTCGGGGCTGC
 ACTGGGTGATGGAGGTGCTCCAGGCCACATGCAGACGGACTCTGGAAGTGGCAAGGACATCCCTCTCTA
 CCTCAGCAGCAGCCTGGGAACTGAGAGGTTGAGCAGCGTGGTGGAAAGCCTGAGATCCAGGAACTGAAG
 GCGGCTGCAGAACTGAGGTCCAGGCTGCGGACTCTAGCGGAGGTCTCTCCAGATGCTCCCAAAATATCA
 CGGAGACCCAGGAGCCTGAGCAGCCTGAACCGGAGCTGGTGAAGAGCCGGGATCAGGTACATGAGGA
 CAGAAGCATCCAGCAGATTGAGTGTGTTGGACAAGATGAAGTTCATCTACAAACAGTTCAAGAAGTCT
 AGGATGAGGCCAGGGCTGGCTACAACGAGGAGCAGATTCACAAGCTGGATAAGGTGAATTTGAGTCATT
 TAGCCAAAAGACTCCTGCAGGTGTTCCAGGAGGAGTGCCTGCAGAAGTATCAAGCGTCTTAGTCACACA
 CGGCAAGAGGATGAGGTTGGTGCACGAGACCAGGAACCTGCGCCTGGTTGGCTGTTCTGTGGCTGCC
 TGTAACACAGAAGCCAGGGGTTCCAGGAGAGTCTCAGCAAGCATGCAAGAGCTCTGCGAGGGGATGAAG
 CTGCTGGCATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC231358 representing NM_001193322
Red=Cloning site Green=Tags(s)

MQSTANYLWHTDDLQGGATASVYKARNKKSSELVAVKVFNTTSYLRPREVQVREFEVLRLKLNHQNIVKL
 FAVEETGGSRQKVLVMEYCSSGSLLSVLESPENAFGLPEDEFLVLRVAVAGMNLRENGIVHRDIKPGN
 IMRLVGEEGQSIYKLTDFGAARELDDDEKFFSVYGTTEEYLHPDMYERAVLRKPPQKAFGVTVDLWSIGVT
 LYHAATGSLPFIPFGPPRRNKEIMYRITTEKPAIAGAQRRENGPLEWSTLPIITCQLSLGLQSLVPI
 LANILEVEQAKCWGFDQFFAETSDILQRVVVHVFSLSQAVLHHIYIHAHNTIAIFQEAVHKQTSVAPRHQ
 EYLFEGHLCVLEPSVSAQHIAHTTASSPLTLFSTAIPKGLAFRDPALDVPKFPKVDLQADYNTAKVGLG
 AGYQALRLARALLDQELMFRGLHWMEVLQATCRRTLEVARTSLLYLSSSLGTERFSSVAGTPEIQELK
 AAAELRSLRRLAEVLSRCSQNI TETQESLSSLNRELKSRDQVHEDRSIQIQCCLDKMMNF IYKQFKKS
 RMRPGLGYNEEQIHKLDKVNFSHLAKRLLQVFQEECVQKYQASLVTHGKMRVHVHETRNHLRLVGCSSVAA
 CNTEAQGVQESLSKHARALRGDEAAGI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



ACCN: NM_001193322

ORF Size: 1971 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_001193322.2](#)

RefSeq ORF: 1974 bp

Locus ID: 9641

UniProt ID: [Q14164](#)

Cytogenetics: 1q32.1

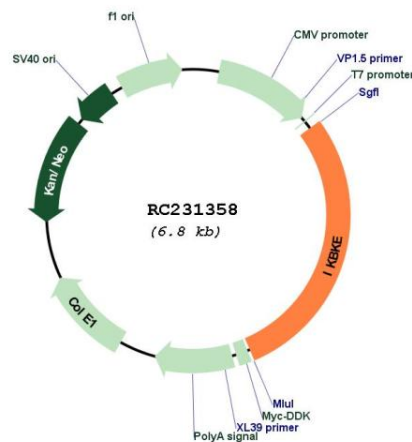
Protein Families: Druggable Genome, Protein Kinase

Protein Pathways: Cytosolic DNA-sensing pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway

MW: 74.2 kDa

Gene Summary: IKBKE is a noncanonical I-kappa-B (see MIM 164008) kinase (IKK) that is essential for regulating antiviral signaling pathways. IKBKE has also been identified as a breast cancer (MIM 114480) oncogene and is amplified and overexpressed in over 30% of breast carcinomas and breast cancer cell lines (Hutti et al., 2009 [PubMed 19481526]).[supplied by OMIM, Oct 2009]

Product images:



Circular map for RC231358