

Product datasheet for **RC230859**

IKBKE (NM_001193321) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKBKE (NM_001193321) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	IKBKE
Synonyms:	IKK-E; IKK-i; IKKE; IKKI
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide
Sequence:

>RC230859 representing NM_001193321
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGCATCGCC

ATGGAGTACTGCTCCAGTGGGAGCCTGCTGAGTGTGCTGGAGAGCCCTGAGAATGCCTTTGGGCTGCCTG
AGGATGAGTTCCTGGTGGTGTGCTGCGCTGTGTGGTGGCCGGCATGAACCACCTGCGGGAGAACGGCATTGT
GCATCGCGACATCAAGCCGGGGAACATCATGCGCCTCGTAGGGGAGGAGGGGAGAGCATCTACAAGCTG
ACAGACTTCGGCGCTGCCCGGGAGCTGGATGATGATGAGAAGTTCGTCTCGGTCTATGGGACTGAGGAGT
ACCTGCATCCCGACATGTATGAGCGGGCGGTGCTTCGAAAGCCCCAGCAAAAAGCGTTCCGGGGTACTGT
GGATCTCTGGAGCATTGGAGTGACCTTGTACCATGCAGCCACTGGCAGCCTGCCCTTCATCCCCTTTGGT
GGGCCACGGCGGAACAAGGAGATCATGTACCGGATCACACGGAGAAGCCGGCTGGGGCCATTGCAGGTG
CCCAGAGGCGGGAGAACGGGCCCTGGAGTGGAGCTACACCCTCCCATCACCTGCCAGCTGTACTGGG
GCTGCAGAGCCAGCTGGTGCCTCCTGGCCAACATCCTGGAGGTGGAGCAGGCCAAGTGTGGGGCTTC
GACCAGTCTTTGCGGAGACCAGTGACATCCTGCAGCGAGTTGTCTGTCATGCTTCTCCCTGTCCCAGG
CAGTCTGCACCACATCTATATCCATGCCACAACACGATAGCCATTTTCCAGGAGGCCGTGCACAAGCA
GACCAGTGTGGCCCCGACACCAGGAGTACCTTTTGGGGTACCTCTGTGTCTCGAGCCCAGCGTC
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CAACTGCCAAGGGCGTGTGGGGCGCGGCTACCAGGCCCTGCGGTGGCACGGGCCCTGCTGGATGGG
CAGGAGCTAATGTTTCGGGGCTGCACTGGGTCTGGAGGTGCTCCAGGCCACATGCAGACGGACTCTGG
AAGTGGCAAGGACATCCCTCCTACCTCAGCAGCAGCCTGGGAACTGAGAGTTGAGAGCTGAGAGCTGG
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CATCTACAAACAGTTCAAGAAGTCTAGGATGAGGCCAGGGCTTGGCTACAACGAGGAGCAGATTACAAG
CTGGATAAGGTGAATTTAGTCAATTTAGCCAAAAGACTCCTGCAGGTGTTCCAGGAGGAGTGCCTGCAGA
AGTATCAAGCGTCTTAGTACACACGGCAAGAGGATGAGGGTGGTGCACGAGACCAGGAACCCACTGCC
CCTGGTTGGCTGTTCTGTGGCTGCCTGTAAACAGAAAGCCAGGGGGTCCAGGAGAGTCTCAGCAAGCTC
CTGGAAGAGCTATCTCACCAGCTCCTCAGGACCAGCAAGGGGGCTCAGGCCTCGCCGCTCCCATAG
CTCCTTACCCAGCCCTACACGAAAGGACCTGTTCTCCACATGCAAGAGCTCTGCGAGGGGATGAAGCT
GCTGGCATCTGACCTCCTGGACAACAACCGCATCATCGAACGGCTAAATAGAGTCCCAGCACCTCCTGAT
GTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC230859 representing NM_001193321
Red=Cloning site Green=Tags(s)

MEYCSSGSLLSVLESPENAFGLPEDEFLVVLRCVVAGMNLRENGIVHRDIKPGNIMRLVGEEGQSIYKL
 TDFGAARELDDDEKFFSVYGTTEYLHPDMPYERAVLRKPQQKAFGVTVDLWSIGVTLYHAATGSLPFIPFG
 GPRRNKEIMYRITTEKPAIAGAQRRENPLEWSYTLPTICQLSLGLQSQLVPILANILEVEQAKCWGF
 DQFFAETSDILQRVVVHVFSLSQAVLHHIYIHAHNTIAIFQEAVHKQTSVAPRHQEYLFEGHLCVLEPSV
 SAQHIAHTTASSPLTLFSTAIPKGLAFRDPALDVPKFVPKVDLQADYNTAKGVLGAGYQALRLARALLDG
 QELMFRGLHWVMEVLQATCRRTLEVARTSLLYLSSSLGTERFSSVAGTPEIQELKAAAELRSRLRTLAEV
 LSRCSQNIETQESLSSLNRELKSRDQVHEDRSIQIQCCLDKMNFIYKQFKSRMRPGLGYNEEQIHK
 LDKVNFSLAKRLLQVFQEECVQKYQASLVTHGKRMRVVHETRNHLRLVGCSVAACNTEAQGVQESLSKL
 LEELSHQLLQDRAKGAQASPPPIAPYSPTRKDLLLHMQELCEGMKLLASDLLDNNRIIERLNRVPAPPD
 V

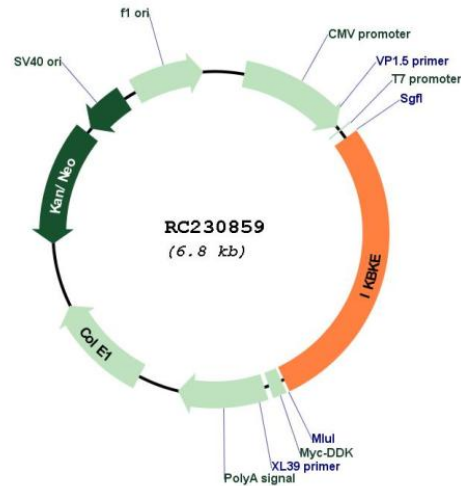
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:


ACCN: NM_001193321

ORF Size: 1893 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_001193321.2](#)

RefSeq ORF:	1896 bp
Locus ID:	9641
UniProt ID:	<u>Q14164</u>
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:	71.3 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]