

Product datasheet for **RG212481**

IKBKE (NM_014002) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKBKE (NM_014002) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IKBKE
Synonyms:	IKK-E; IKK-i; IKKE; IKKI
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

**ORF Nucleotide
Sequence:**

>RG212481 representing NM_014002
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCAGAGCACAGCCAATTACCTGTGGCACACAGATGACCTGCTGGGGCAGGGGGCCACTGCCAGTGTGT
 ACAAGGCCCGCAACAAGAAATCCGGAGAGCTGGTTGCTGTGAAGTCTTCAACACTACCAGCTACCTGCG
 GCCCGCGAGGTGCAGGTGAGGGAGTTTGGAGTCTGCGGAAGCTGAACCACCAGAACATCGTCAAGCTC
 TTTGCGGTGGAGGAGACGGGCGGAAGCCGGCAGAAAGTACTGGTATGGAGTACTGCTCCAGTGGGAGCC
 TGCTGAGTGTGCTGGAGAGCCCTGAGAATGCCTTTGGGCTGCCTGAGGATGAGTTCCTGGTGGTGTGCG
 CTGTGTGGTGGCCGGCATGAACCACCTGCGGGAGAACGGCATTGTGCATCGCGACATCAAGCCGGGAAC
 ATCATGCGCCTCGTAGGGGAGGAGGGGCAGAGCATCTACAAGCTGACAGACTTCGGCGCTGCCCGGGAGC
 TGGATGATGATGAGAAGTTCGTCTCGTCTATGGGACTGAGGAGTACCTGCATCCCGACATGTATGAGCG
 GCGGTTGCTTCGAAAGCCCGAGAAAAGCGTTTCGGGGTACTGTGGATCTCTGGAGCATTGGAGTGACC
 TTGTACCATGCAGCCACTGGCAGCCTGCCTTCACTCCCTTTGGTGGGCCACGGCGGAACAGGAGATCA
 TGTACCGGATCACCCAGGAGAAGCCGGCTGGGGCCATTGCAGGTGCCAGAGCGGGAGAACGGGCCCT
 GGAGTGGAGCTACACCCTCCCCATCACCTGCCAGCTGTACTGGGGCTGCAGAGCCAGCTGGTGGCCATC
 CTGGCCAAACATCTGGAGGTGGAGCAGGCCAAGTCTGGGGCTTCGACCAGTTCTTTGCGGAGACCAGTG
 ACATCTGCAGCGAGTTGTCTGCATGTCTTCTCCCTGTCCCAGGCAGTCTGCACCACATCTATATCCA
 TGCCCAACAACAGATAGCCATTTCCAGGAGCCGTGCACAAGCAGACCAGTGTGGCCCCCGACACCAG
 GAGTACCTCTTTGAGGGTCACTCTGTCTCCTCGAGCCAGCGTCTCAGCACAGCACATCGCCACACGA
 CGGCAAGCAGCCCCCTGACCCTTTCAGCACGCCATCCCTAAGGGGCTGGCCTTCAGGGACCCTGCTCT
 GGACGTCCCAAGTTTCGTCCTCCCAAGTGGACCTGCAGGCGGATTACAACACTGCCAAGGGCGTGTGGGC
 GCCGGCTACCAGGCCCTGCGGCTGGCACGGCCCTGCTGGATGGGCAGGAGCTAATGTTTCGGGGCTGC
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 CCTCAGCAGCAGCCTGGGAAGTGGAGGTTTCAGCAGCGTGGTGGAAAGCCTGAGATCCAGGAAGTGAAG
 GCGGCTGCAGAACTGAGGTCCAGGCTGCGGACTCTAGCGGAGGTCTCTCCAGATGCTCCCAAAATATCA
 CGGAGACCCAGGAGCCTGAGCAGCCTGAACCGGAGCTGGTGAAGAGCCGGGATCAGGTACATGAGGA
 CAGAAGCATCCAGCAGATTCAGTGTGTTTGGACAAGATGAAGTTCATCTACAAACAGTTCAAGAAGTCT
 AGGATGAGGCCAGGGCTTGCTACAACGAGGAGCAGATTACAAGCTGGATAAGGTGAATTTCAAGTATT
 TAGCCAAAAGACTCCTGCAGGTGTTCCAGGAGGAGTGCCTGCAGAAGTATCAAGCGTCTTAGTCACACA
 CGGCAAGAGGATGAGGTTGGTGCACGAGACCAGGAACCTGCGCCTGGTTGGCTGTTCTGTGGGTGCC
 TGTAACACAGAAGCCAGGGGCTCCAGGAGAGTCTCAGCAAGCTCCTGGAAGAGCTATCTACCAGCTCC
 TTCAGGACCGAGCAAAGGGGCTCAGGCCTCGCCGCTCCCATAGCTCCTTACCCAGCCCTACACGAAA
 GGACCTGCTTCTCCACATGCAAGAGCTCTGCGAGGGGATGAAGCTGTGGCATCTGACCTCCTGGACAAC
 AACCGCATCATCGAACGGCTAAATAGAGTCCCAGCACTTCTGATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG212481 representing NM_014002
 Red=Cloning site Green=Tags(s)

MQSTANYLWHTDDLQGGATASVYKARNKKSSELVAVKVFNTTSYLRPREVQVREFEVLRLKLNHQNIIVKL
 FAVEETGGSRQKVLVMEYCSSGSLLSVLESPENAFGLPEDEFLVLRVAVAGMNLRENGIVHRDIKPGN
 IMRLVGEEGQSIYKLTDFGAARELDDDEKFFSVYGTTEEYLPDMYERAVLRKPKQKAFQVTVLWSIGVT
 LYHAATGSLPFIPIFGPARRNKEIMYRITTEKPAAGIAGAQRRENGPLEWSTLPIITCQLSLGLQSLVPI
 LANILEVEQAKCWGFDQFFAETSDILQRVVVHVFSLSQAVLHHIYIHAHNTIAIFQEAVHKQTSVAPRHQ
 EYLFEGHLCVLEPSVSAQHIAHTTASSPLTLFSTAIPKGLAFRDPALDVPKFPKVDLQADYNTAKVGLG
 AGYQALRLARALLDQELMFRGLHWMEVLQATCRRTLEVARTSLLYLSSSLGTERFSSVAGTPEIQELK
 AAAELRSRLRTLAEVLSRCSQNI TETQESLSSLNREL VKSRDQVHEDRSIQIQCCLDKMNFIYKQFKKS
 RMRPGLGYNEEQIHKLDKVNFSHLAKRLLQVFQEECVQKYQASLVTHGKRMRVVHETRNHLRLVGCSSVAA
 CNTEAQGVQESLSKLEELSHQLLQDRAKGAQASPPPIAPYPSPTRKDLLLHMQELCEGMKLLASDLLDN
 NRIIERLNRVPALPDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_014002

ORF Size: 2148 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_014002.4](#)

RefSeq Size: 3263 bp

RefSeq ORF: 2151 bp

Locus ID: 9641

UniProt ID: [Q14164](#)

Cytogenetics: 1q32.1

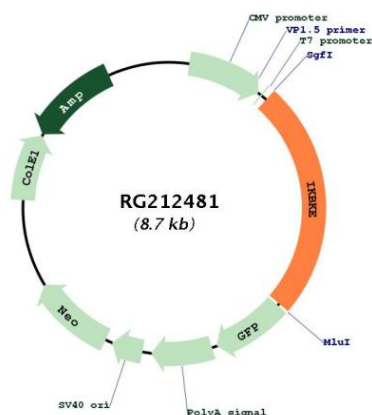
Domains: pkinase

Protein Families: Druggable Genome, Protein Kinase

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

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 RG212481