

Product datasheet for **SC119358**

IKK alpha (CHUK) (NM_001278) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKK alpha (CHUK) (NM_001278) Human Untagged Clone
Tag:	Tag Free
Symbol:	IKK alpha
Synonyms:	BPS2; IKBKA; IKK-alpha; IKK1; IKKA; NFKBIKA; TCF16
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF:

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>OriGene ORF sequence for NM_001278 edited
ATGGAGCGGCCCCGGGGCTGCGGCCGGGCGGGCGGGCCCTGGGAGATGCGGGAGCGG
CTGGGCACCGGCGGCTTCGGGAACGTCTGTCTGTACCAGCATCGGGAACCTTGATCTCAA
ATAGCAATTAAGTCTTGTGCGCTAGAGCTAAGTACAAAAACAGAGAACGATGGTGCCAT
GAAATCCAGATTATGAAGAAGTTGAACCATGCCAATGTTGTAAGGCCTGTGATGTTCT
GAAGAATTGAATATTTTGATTCATGATGTGCCTCTTAGCAATGGAATACTGTTCTGGA
GGAGATCTCCGAAAGCTGCTCAACAACCAGAAAATGTTGTGGACTTAAGAAAAGCCAG
ATACTTTCTTTACTAAGTGATATAGGGTCTGGGATTCGATATTTGCATGAAAACAAAAT
ATACATCGAGATCTAAAACCTGAAAACATAGTTCTTCAGGATGTTGGTGGAAAGATAATA
CATAAAATAATTGATCTGGGATATGCCAAAGATGTTGATCAAGGAAGTCTGTGTACATCT
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ACTGTTGATTATTGGAGCTTTGGGACCATGGTATTTGAATGTATTGCTGGATATAGGCC
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CCAAATAGCCTTTGTAGTTTAGTAGTAGAACCCATGAAAACTGGCTACAGTTGATGTTG
AATTGGGACCCTCAGCAGAGAGGAGGACCTGTTGACCTTACTTTGAAGCAGCCAAGATGT
TTTGTATTAATGGATCACATTTTGAATTTGAAGATAGTACACATCCTAAATATGACTTCT
GCAAAGATAATTTCTTTCTGTTACCACCTGATGAAAAGTCTTCATTCACTACAGTCTCGT
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CAAGATGGGGAGACTTCAGCACAATGATAGAAGAAAATTTGAACTGCCTTGCCATTTA
AGCACTATTATTCATGAGGCAAAATGAGGAACAGGGCAATAGTATGATGAATCTTGATTGG
AGTTGGTTAACAGAATGA
    
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5' Read Nucleotide Sequence: >OriGene 5' read for NM_001278 unedited
 NNNTTGGTTCGAATATTTGTAATACGACTCACTATAGGGCGGCCGCGATTTCGGCACGAGGCG
 GCCTTGGAACAACGTGGAACTGAGGCCGCTTGCCTCCCGCCCATGGAGCGGCCCC
 GGGGCTGCGGCCGGCGCGGGCGGCCCTGGGAGATGCGGGAGCGGCTGGGCACCGGCG
 CTTGCGGAACGTCTGTCTGTACCAAGCATCGGAACTTGATCTCAAATAGCAATTAAGTC
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 GAAGAAGTTGAACCATGCCAATGTTGTAAGGCCTGTGATGTTCCCTGAAGAATTGAATAT
 TTTGATTCATGATGTCCTCTTAGCAATGGAATACTGTTCTGGAGGAGATCTCCGAAA
 GCTGCTCAACAAACCAGAAAATTGTTGTGGACTTAAAGAAAGCCAGATACTTTCTTTACT
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 TAAAACCTGAAAACATAGTTCTTCAGGATGTTGGTGAAAGATAATACATAAAAATAATTG
 ATCTGGGATATGCCAAAGATGTTGATCAAGGAAGTCTGTGTACATCTTTTGTGGGAACAC
 TGCAGTATCTGGCCCAGAGCTCTTTGAGAATAAGCCTTCACAGCCACTGTTGATTATTG
 GAGCTTTGGACCATGGATTTTGAATGTATTGCTGGATATAGGCCTTTTTGCATCATCTG
 CAGCCATTTACCTGGCATGAGAAGATTAAGAAGAANGGATCCAAGTGATATTTGCTGTG
 AAAGATGCGAGAAAAAAAANNNGTTAATACCCATTTACTACCAAAGCCTTTGGG
 GGTTTTTGTAGAGTAAACCATGGAAGTCTCCNTGTTGTGTGGTTGAATTGGACCTCAC
 AAC

3' Read Nucleotide Sequence: >OriGene 3' read for NM_001278 unedited
 CGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTAAATTTAAAAACCATTTAATACACAA
 AGTGAAAAACTATTAGAATATAAAAGCATTTCACATTTTTTAAGACAAATAATATCTTCT
 AAATTACTTAGCAGATGATAGAGTCCACAGTCCTTTCTCTGAAACCTTGGGGCAAGTT
 GTTTCAGAATTATGAAATTTTAGATTTTAGAAAAGTAGTTTTGTGCATATACCATACTAC
 ATTAACCAGCCCTCACCACAGTCTGTGGCAGCAGCCCTCCCTCTCATCATCAAGCAGCAA
 AATAAAGGAATATTCACACTAAATGGGATAAAAAGATTCAAGGTCAGTTCAGATTATATT
 GCAAGCAAATGAATTTTGCACCAAGCTTATGGAAACCTTGTTTTTCAGAGCTTTTTGGAT
 TTTGGAATTACAATTACAGATAAAGGAGTGCAGACCTTTATAAATTTGTATGACAAGACA
 TGAAAGATTGTTAAACAATGACTCATTTTTACAATGAAAAACATGTAATTTTCAA
 TACATTATAAATTAACAGGCATCTTCTTTGATATTATTAATGTACATCTTAAATACA
 TATACACACAACAACATGATTTATGATAGCCAATAATATTAGAAGCACAGATACACAAT
 CCCTTCGATGAGAAGGGGATACTGTTAAATTTTCAAGTGAATTTAAATGATTACCCCAA
 CTCCTTATGATGCCCAGAAGAGACCTGTTCAAGTGCACACAAGGAGTAGAATTATTCTTCA
 GAACTAAACTGGACAGCCTTTTAGAAAAAACAGTAGACTTTACTAAATGCCTATACCT
 GAGTTTCTTCTGTAATAACTATTGGTCTTCGCAAAAGTAAAGTGACCCATCCTAGAAG
 ATTCTCATCGTAAAAAGAATGTTACAGACTGAGCAAGGGCCGAGGCCTCTATACGGTT
 TAACCAATTAACAGTCTTGC

Restriction Sites: NotI-NotI

ACCN: NM_001278

Insert Size: 3670 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_001278.3](#), [NP_001269.3](#)

RefSeq Size: 3539 bp

RefSeq ORF: 2238 bp

Locus ID: 1147

UniProt ID: [O15111](#)

Cytogenetics: 10q24.31

Domains: pkinase, TyrKc, S_TKc

Protein Families: Druggable Genome, Protein Kinase

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, MAPK 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

Gene Summary:

This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, phosphorylates sites that trigger the degradation of the inhibitor via the ubiquination pathway, thereby activating the transcription factor. [provided by RefSeq, Jul 2008]