

Product datasheet for **SC323326**

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: >OriGene ORF within SC323326 sequence for NM_001278 edited (data generated by NextGen Sequencing)

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ATGGAGCGGCCCCGGGGCTGCGGCCGGGCGGGCGGGCCCTGGGAGATGCGGGAGCGG
CTGGGCACCGGCGGCTTCGGGAACGTCTGTCTGTACCAGCATCGGGTACTTGATCTCAA
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GAAATCCAGATTATGAAGAAGTTGAACCATGCCAATGTTGTAAGGCCTGTGATGTTCCCT
GAAGAATTGAATATTTTGATTCATGATGTCCTTCTAGCAATGGAATACTGTTCTGGA
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ATACTTTCTTTACTAAGTGATATAGGGTCTGGGATTTCGATATTTGCATGAAAACAAAATT
ATACATCGAGATCTAAAACCTGAAAACATAGTTCTTCAGGATGTTGGTGGAAAGATAATA
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AGTGACAGCACAGAGATGGTGAATAATCATTGTGCACACTGTGCAGAGTCAGGACCGTGTG
CTCAAGGAGCTGTTTGGTCATTTGAGCAAGTTGTTGGGCTGTAAGCAGAAGATTATTGAT
CTACTCCCTAAGGTGGAAGTGGCCCTCAGTAATATCAAAGAAGCTGACAATACTGTCATG
TTCATGCAAGGAAAAAGGCAGAAAGAAATATGGCATCTCCTTAAAATTGCCTGTACACAG
AGTTCTGCCCCGGTCCCTTGTAGGATCCAGTCTAGAAGGTGCAATAACCCCTCAGACATCA
GCATGGCTGCCCCGACTTCAGCAGAACATGATCATTCTCTGTGATGTGTGGTAACTCCT
CAAGATGGGGAGACTTCAGCACAATGATAGAAGAAAATTTGAACTGCCTTGGCCATTTA
AGCACTATTATTCATGAGGCAAAATGAGGAACAGGGCAATAGTATGATGAATCTTGATTGG
AGTTGGTTAACAGAATGA

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Clone variation with respect to NM_001278.3
107 a=>t;131 a=>t

5' Read Nucleotide Sequence:	>OriGene 5' read for mutant NM_001278 unedited TCGGTACGACGAACAACGGGCGGAGGCGGCACGGGAGGGCCACACAAGCAGACACGAAAGCGAACCGACA GAGTACGAAAACGACACACAAAAGGGCGGCCGCGAACACGGCAGGAGCGGCCACGGAACAACCGCGGAA CCCGAGGCCGCCGCCACCCGCCACGGAGCGGCCCGGGGAGCGGCCGGGCGGGCGGGCCCTG GGAGATGCGGGAGCGGCTGGGCACCGCGGCTTTCGGGAACGTTCTGTGTACCAGCATCGGGTACTTG ATTCTCAAATAGCAATTATGTCTTTGTGCGCTAGAGCTAAGTACCAAAAAACAGAGAAACGAATGGTTG CCATGAAATCCAGATTATGAAAGAAAGTTGACCCTGGCCATGGTTGGTAAAGGCCGGGAGGTTCTCGAG AAATTGATTATTTTTGATTCTGGATGTGCCTCTTCTACCATGGGATTACGGTTTCGGAAGGAAATCTCCAA AGCGCGCTCACCAAAACAAAAATGTTTGGGACTTAGAAAACCCAGTACCTTTTTTTCTTAATTGATTA GGGCCGGTTCGATTTTTTCATGAAAAAAATTTAATTGATCTAAAACCTGAAACCAAGTCTTCCGAAT TTGTGGGAAGATATACATATAATATATGATCTGGAATGCCAGATATGGTCAAGAGATCTGGAAACTTT TGGAACTGAGATCTGCCAAGCTCTGGATACCTACAGCACTGTGATATTGACTTGGACATGTATGATG ATGCGGATAAGCCTTTTGTCTCGGACATACTGCTGGAGATAGAGAAGTCCAATGTATGCTGAAGAGTCG GAATCGTGTAACAATACACAACCTGAATAAG
Kinase Domain Sequence:	>SC323326 kinase domain raw sequence. By performing BLASTX analysis with this sequence against NCBI reference protein database, you can confirm the presence of the kinase-deficient mutation CSCTGMGCAATGGGCGGTAGGCGGTACGGTGGGAGGTCTATATAAGCAGAGCTCGTTTAGTGAACCGTC AGAATTTTGTAACTGACTCACTATAGGGCGCCGGAATTCGGCAGGAGCGGCCTTGGAACTGTG GAACCTGAGGCCGCTTGCCTCCCGCCCATGGAGCGGCCCGGGGCTGCGGCCGGGCGGGCGGGCC CTGGGAGATGCGGAGCGGCTGGGCACCGCGGCTTCGGGAACGT
Restriction Sites:	Please inquire
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
OTI Annotation:	This kinase-deficient mutant clone was generated by created by site-directed mutagenesis from the corresponding wild-type clone. See details in "Application of active and kinase-deficient kinome collection for identification of kinases regulating hedgehog signaling." Cell, 2008 May p536-548.
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:	<ol style="list-style-type: none">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]