

Product datasheet for **RG216718**

IKK alpha (CHUK) (NM_001278) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	IKK alpha (CHUK) (NM_001278) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	IKK alpha
Synonyms:	BPS2; IKBKA; IKK-alpha; IKK1; IKKA; NFKBIKA; TCF16
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216718 representing NM_001278
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGAGCGGCCCCCGGGGCTGCGGCCGGCGGGCGGGCCCTGGGAGATGCGGGAGCGGCTGGGCACCG
 GCGGCTTCGGGAACGTCTGTCTGTACCAGCATCGGGAACCTTGATCTCAAATAGCAATTAAGTCTTGTCG
 CCTAGAGCTAAGTACAAAAACAGAGAACGATGGTGCCATGAAATCCAGATTATGAAGAAGTTGAACCAT
 GCCAATGTTGTAAGGCCTGTGATGTTCTGAAGAATTGAATATTTTGATTGATGATGTGCCTCTCTAG
 CAATGGAATACTGTTCTGGAGGAGATCTCCGAAAGCTGCTCAACAAACCAGAAAATTGTTGTGGACTTAA
 AGAAAGCCAGATACTTTCTTTACTAAGTGATATAGGGTCTGGGATTCGATATTTGCATGAAAACAAAATT
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 CAAGATGGGGAGACTTCAGCACAATGATAGAAGAAAATTTGAACTGCCTTGGCCATTTAAGCACTATTA
 TTCATGAGGCAAATGAGGAACAGGGCAATAGTATGATGAATCTTGATTGGAGTTGGTTAACAGAA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence: >RG216718 representing NM_001278
Red=Cloning site Green=Tags(s)

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MERPPGLRPGAGGPWEMRERLGTGGFGNVCLYQHRELDLKI AIKSCRLELSTKNRERWCHEIQIMKKLNH
ANVVKACDVPPEELNILIHDVPLLA MEYCSGGDLRKL NKPENCCGLKESQILSLLSDIGSGIRYLHENKI
IHRDLKPENIVLQDVGGKIIHKIIDLGYAKDVDQGLSCTSFVGT LQYLAPELFENKPYTATVDYWSFGTM
VFECIAGYRLFHLHLQPFTWHEKIKKKDPKCFACEEMSGEVRFSSHL PQPNSLCSLIVEPMENWLQML
NWDPQQRGGPVDLTLKQPRCFV LMDHILNLKIVHILNMTSAKII SFLLPPDESLHSLQSRIERETGINTG
SQELLSETGISLDPRKPASQC VLDGVRGCD SYMVYLFDKSKTVYEGPFASRSLSDCVNYIVQDSKIQLPI
IQLRKVWAEAVHYVYSGLKEDYSRLFQGGQRAAML SLLRYNANLTKMKNTLISASQQLKAKLEFFHKSIQLD
LERYSEQMTYGISSEKMLKAWKEMEKA IHYA EVGVIGYLEDQIMSLHAEIMELQKSPYGRRQGDLMESL
EQRAIDLKYLKHRPSDHSYSDSTEMVKIIVHTVQSQDRVLKELFGHL SKLLGCKQKIIDLLPKVEVALS
NIKEADNTVMFMQGRQKEIWHLLKIACTQSSARSLVGS SLEGAVTPQTSAWLPPTSAEHDHSLSCVVTP
QDGETSAQMIEENLNCLGHLSTIIHEANEEQGNM MNLDWSWLTE
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001278

ORF Size: 2235 bp

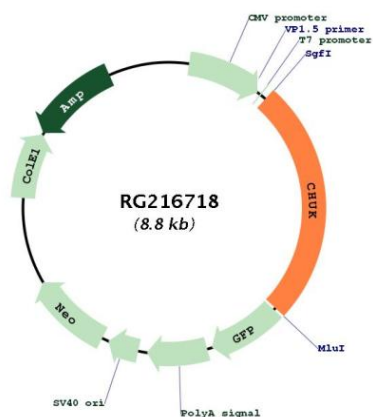
OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially 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:	<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]

Product images:



Circular map for RG216718