

## Product datasheet for **RG219747**

### Choline kinase alpha (CHKA) (NM\_001277) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Choline kinase alpha (CHKA) (NM_001277) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Choline kinase alpha
Synonyms:	CHK; CK; CKI; EK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG219747 representing NM\_001277  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCCCGCATCGCC

ATGAAACCAAAATCTGCACCGGGGCGAGGCGGAGCCCTCGCCGCTCGGGCTGCTGCTGAGCTGCGGTA  
 GCGGCAGCGCGGCCCGGCGCCCGGCGTGGGGCAGCAGCGCGACGCCAGCGACCTCGAGTCCAAGCA  
 GCTGGGGCGGCAACAGCCGCGCTCGCGCTGCCCCCTCCGCCGCGCTGCCGCTGCCGCTGCCGCTGCC  
 CAGCCCCCGCGCGCAGCCGCCCGCAGACGAGCAGCCGGAGCCCGGACGCGGCGCAGGGCCTATCTGT  
 GGTGCAAGGAGTTCCTGCCGCGCCTGGCGGGGCTCCGCGAGGACGAGTTCACATCAGTGTATCAG  
 AGGCGGCCTTAGCAACATGCTGTTCCAGTGTCCCTACCTGACACCACAGCCACCCTTGGTATGAGCCT  
 CGGAAAGTCTCTCGGCTGTATGGAGCGATTTGCAGATGAGTCTGTAATAAAGAGGGATCCGAAC  
 AAGCTCAGAAAGAAAATGAATTTCAAGGGGCTGAGGCCATGGTCTGGAGAGCGTTATGTTGCCATTCT  
 CGCAGAGAGGTCACTTGGCCAAAACCTATGGCATCTTCCCAAGGCCGACTGGAGCAGTTCATCCCG  
 AGCCGGCGATTAGATACTGAAGAATTAAGTTTGCCAGATATTTCTGCAGAAATCGCCGAGAAAATGGCTA  
 CATTTCATGGTATGAAAATGCCATTCAATAAGGAACAAAATGGCTTTTTGGCACAAATGGAAAATGATCT  
 AAAGGAAGTGTGAGAATTAATTTACTGAGGAATCCAGAATAAAAAGCTCCACAAATTGCTCAGTTAC  
 AATCTGCCCTTGGAACTGAAAACCTGAGATCATTGCTTGAATCTACTCCATCTCCAGTTGATTTTTGTC  
 ATAATGACTGTCAAGAAGTAATATCTTGTGCTGGAAGGCCGAGAGAATTTGAAAAACAGAACTGAT  
 GCTCATTGATTTCAATACAGCAGTTACAATTACAGGGGATTGACATTGGAAATCACTTCTGTGAGTGG  
 ATGTATGATTATAGCTATGAAAAATACCCTTTTTTCAGAGCAAACATCCGGAAGTATCCCACCAAGAAAC  
 AACAGCTCCATTTTATTTCCAGTTACTTGCCTTCCAAAATGACTTTGAAAACCTCAGTACTGAAGA  
 AAAATCCATTATAAAGAAGAAAATGTTGCTTGAAGTTAATAGTTTGCCCTTGCACTCTATTTCTCTGG  
 GGACTGTGGTCCATTGTACAAGCCAAGATTTTCTATTTGAATTTGGGTACATGGACTACGCCCAAGCAA  
 GTTTTGATGCCTATTTCCACCAGAAGAGGAAGCTTGGGGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:**

>RG219747 representing NM\_001277  
 Red=Cloning site Green=Tags(s)

MKTKFCTGGEAEPSPGLLLLSCGSGSAAPAGVGGQRDAASDLESKQLGGQQPLALPPPPPLPLPLPLP  
 QPPPPQPPADEQPEPRTRRRAYLWCKEFLPGAWRGLREDEFHISVIRGGLSNMLFQCSLPDATTALGDEP  
 RKVLLRLYGAILQMRSCNKEGSEQAQKENEFGQAEAMVLESVMFAILAERSLGPKLYGIFPQGRLEQFIP  
 SRRLDTEELSLPDISAEIAEKMATFHGMKMPFNKEPKWLFGTMEKYLKEVLRIFTEESRIKKLHKLLSY  
 NLPLELENLRSLLSTSPVVFCHNDQCQEGNILLLEGRENSEKQKMLIDFEYSSYNRGRFDIGNHFCEW  
 MYDYSYKYPFFRANIRKYPTKQQLHFISSYLPAFQNDNFENLSTEEKSIIKEEMLLEVNRFALASHFLW  
 GLWSIVQAKISSIEFGYMDYAQARFDAYFHQKRKLGV

TRTRPLE - GFP Tag - V

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**


**ACCN:** NM\_001277

**ORF Size:** 1371 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\\_001277.3](#)

**RefSeq Size:** 2733 bp

**RefSeq ORF:** 1374 bp

**Locus ID:** 1119

**UniProt ID:** [P35790](#)

**Cytogenetics:** 11q13.2

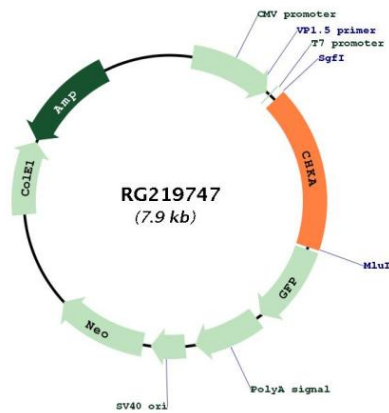
**Domains:** Choline\_kinase

**Protein Families:** Druggable Genome

**Protein Pathways:** Glycerophospholipid metabolism, Metabolic pathways

**Gene Summary:** The major pathway for the biosynthesis of phosphatidylcholine occurs via the CDP-choline pathway. The protein encoded by this gene is the initial enzyme in the sequence and may play a regulatory role. The encoded protein also catalyzes the phosphorylation of ethanolamine. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

**Product images:**



Circular map for RG219747