

Product datasheet for **RC207209**

Choline kinase alpha (CHKA) (NM_212469) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Choline kinase alpha (CHKA) (NM_212469) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Choline kinase alpha
Synonyms:	CHK; CK; CKI; EK
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC207209 representing NM_212469
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGAAACCAAAATCTGCACCGGGGCGAGGCGGAGCCCTCGCCGCTCGGGCTGCTGCTGAGCTGCGGTA
 GCGGCAGCGCGGCCCGGCGCCCGGCGTGGGGCAGCAGCGCAGCCGCCAGCGACTCGAGTCCAAGCA
 GCTGGGGCGGCAACAGCCGCGCTCGCGCTGCCCCCTCCGCCGCGCTGCCGCTGCCGCTGCCGCTGCC
 CAGCCCCCGCGCGCAGCCGCCCGCAGACGAGCAGCCGGAGCCCGGACGCGGCGCAGGGCCTATCTGT
 GGTGCAAGGAGTTCCTGCCGCGCCTGGCGGGGCTCCGCGAGGACGAGTTCACATCAGTGTCATCAG
 AGGCGGCCTTAGCAACATGCTGTTCCAGTGTCCCTACCTGACACCACAGCCACCCTTGGTATGAGCCT
 CGGAAAGTCTCTGCGGCTGTATGGAGCGATTTGCAGGTGGGGCTGAGGCCATGTTCTGGAGAGCG
 TTATGTTTGCATTCTCGCAGAGAGTCACTTGGGCCAAAACCTATGGCATCTTCCCCAAGGCCGACT
 GGAGCAGTTCATCCCGAGCCGGCATTAGATACTGAAGAATTAGTGTTCAGATATTTCTGCAGAAATC
 GCCGAGAAAATGGCTACATTTTCATGGTATGAAAATGCCATTCAATAAGGAACCAAAATGGCTTTTTGGCA
 CAATGGAAGATCTAAAGGAAGTGTGAGAATTAATTTACTGAGGAATCCAGAAATAAAAAGCTCCA
 CAAATGCTCAGTTACAATCTGCCCTTGGAACTGGAAAACCTGAGATCATTGCTTGAATCTACTCCATCT
 CCAGTTGATTTTTGTCATAATGACTGTCAAGAAGGTAATATCTTGTGCTGGAAGCCGAGAGAATTCTG
 AAAACAGAACTGATGCTCATTGATTTCAATACAGCAGTTACAATTACAGGGGATTCCGACATTGGAAA
 TCATTCTGTGAGTGGATGTATGATTATAGCTATGAAAAATACCCTTTTTTCAGAGCAAACATCCGGAAG
 TATCCCACCAAGAAACAACAGCTCCATTTATTTCCAGTACTTGCTGCATTCCAAAATGACTTTGAAA
 ACCTCAGTACTGAAGAAAAATCCATTATAAAAAGAAGAAATGTTGCTTGAAGTTAATAGTTTGCCTTGC
 ATCTCATTCTCTGGGACAGTGGTCCATTGTACAAGCCAAGATTTTCATCTATTGAATTTGGGTACATG
 GACTACGCCCAAGCAAGTTTGTATGCCTATTTCCACCAGAAGAGGAAGCTTGGGGTG

ACGCGTACGCGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207209 representing NM_212469
 Red=Cloning site Green=Tags(s)

MKTKFCTGGEAEPSPGLLLLSCGSGSAAPAPGVGQQRDAASDLESKQLGGQQPPLALPPPPPLPLPLPLP
 QPPPPQPPADEQPEPRTRRRAYLWCKEFLPGAWRGLREDEFHISVIRGGLSNMLFQCSLPDATTALGDEP
 RKVLLRLYGAILQVGAEMVLESVMFAILAERSLGPPLYGIFPQGRLEQFIPSRRLDTEELGLPDISAEI
 AEKMATFHGMKMPFNKEPKWLFMTMEKYLKEVLRIFTEESRIKKLHKLLSYNLPLELENLRSLESTPS
 PVVVFCHNDCQEGNILLLEGRENEKQKMLIDFEYSSYNYRFGFDIGNHFCEWMYDYSEKYPFFRANIRK
 YPTKKQQLHFISSYLPAFQNDFENLSTEEKSIIKEEMLLEVNRFALASHFLWGQWSIVQAKISSIEFGYM
 DYAQARFDAYFHQKRKLGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg2944_f02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_212469

ORF Size: 1317 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_212469.1](#), [NP_997634.1](#)

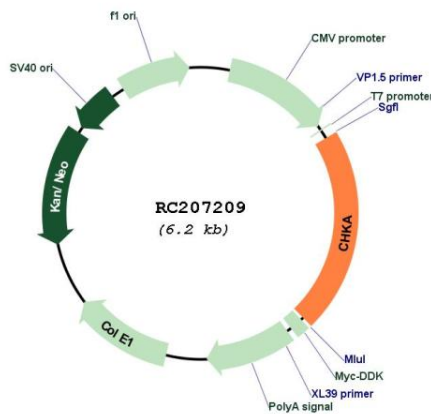
RefSeq Size: 2679 bp

RefSeq ORF: 1320 bp

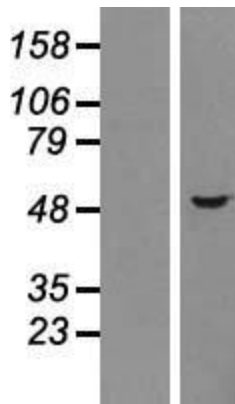
Locus ID: 1119

UniProt ID: [P35790](#)
Cytogenetics: 11q13.2
Protein Families: Druggable Genome
Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways
MW: 50 kDa
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]

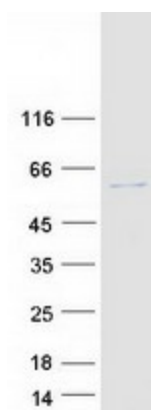
Product images:



Circular map for RC207209



Western blot validation of overexpression lysate (Cat# [LY403943]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207209 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CHKA protein (Cat# [TP307209]). The protein was produced from HEK293T cells transfected with CHKA cDNA clone (Cat# RC207209) using MegaTran 2.0 (Cat# [TT210002]).