

Product datasheet for **SC308631**

Choline kinase alpha (CHKA) (NM_212469) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Choline kinase alpha (CHKA) (NM_212469) Human Untagged Clone
Tag:	Tag Free
Symbol:	Choline kinase alpha
Synonyms:	CHK; CK; CKI; EK
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_212469 edited
 GCGGCCGCCCGCCTCCTCGGCCGCTGTCGGGCATGAAAACAAATTCTGCACCGGGG
 GCGAGGCGGAGCCCTCGCCGCTCGGGCTGCTGCTGAGCTGCGGTAGCGGCAGCGCGGCC
 CGGCGCCCGGCGTGGGGCAGCAGCGCGACGCCAGCGACCTCGAGTCCAAGCAGCTGG
 GCGGCCAACAGCCGCGCTCGCGCTGCCCCCTCCGCCCGCTGCCGCTGCCGCTGCCG
 TGCCCCAGCCCCGCGCCGAGCCGCCAGACGAGCAGCCGGAGCCCCGGACGCGGGC
 GCAGGGCCTATCTGTGGTGCAAGGAGTTCTGCCGGCGCTGGCGGGCCTCCGCGAGG
 ACGAGTTCACATCAGTGTATCAGAGGCGGCCTTAGCAACATGCTGTTCCAGTGTCCC
 TACCTGACACCACAGCCACCCTTGGTGATGAGCCTCGAAAAGTGTCTCTGCGGCTGTATG
 GAGCGATTTTGCAGTGGGGCTGAGGCCATGGTCTGGAGAGCGTTATGTTTGCCATTC
 TCGCAGAGAGGTCACTTGGGCCAAAACCTATGGCATCTTCCCCAAGGCCGACTGGAGC
 AGTTCATCCCAGCCGGCGATTAGATACTGAAGAATTAGGTTTGCCAGATATTTCTGCAG
 AAATCGCCGAGAAAATGGCTACATTTTATGGTATGAAAATGCCATTCAATAAGGAACCAA
 AATGGCTTTTGGCACAATGAAAAGTATCTAAAGGAAGTGTGAGAATTAATTTACTG
 AGGAATCCAGAATAAAAAGCTCCACAAATTGCTCAGTTACAATCTGCCCTTGGAACTGG
 AAAACCTGAGATCATTGCTTGAATCTACTCCATCTCCAGTTGTATTTGTATAATGACT
 GTCAAGAAGGTAATATCTTGTGCTGGAAGGCCGAGAGAATTCTGAAAAACAGAACTGA
 TGCTCATTGATTTGCAATACAGCAGTTACAATTACAGGGGATTGACATTGAAAATCACT
 TCTGTGAGTGGATGTATGATTATAGCTATGAAAAATACCCTTTTTTCAGAGCAAACATCC
 GGAAGTATCCCACCAAGAAAACAACAGCTCCATTTTATTTCCAGTTACTTGCCTGCATTCC
 AAAATGACTTTGAAAACCTCAGTACTGAAGAAAATCCATTATAAAAGAAGAAAATGTTGC
 TTGAAGTTAATAGTTTGGCCTTGCATCTCATTTCCTCTGGGGACAGTGGTCCATTGTAC
 AAGCCAAGATTTTATCTATTGAATTTGGGTACATGGACTACGCCCAAGCAAGTTTGTATG
 CCTATTTCCACCAGAAGAGGAAGCTTGGGGTGTGACTGTGGGGAGGACTCCATCCACCTC
 ATCACTGGACTGCATGGGGAGGCAGCAGAGCGGGTCCCCTCTGTGCTTCGACTACTGCT
 CCTGTGGCAGGAGGCTTTGGGTGGCTCACTACTGAACACATGTGTATGATACTAAAGACG
 GTATTAATGAGCGACGTTTAAA
 AAAAA

Restriction Sites: Please inquire

ACCN: NM_212469

Insert Size: 1600 bp

OTI Disclaimer: Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

OTI Annotation: The ORF of this clone has been fully sequenced and found to contain 3 SNPs compared with NM_212469.1.

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_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

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]

Transcript Variant: This variant (2) lacks an alternate in-frame exon compared to variant 1. The resulting isoform (b) has the same N- and C-termini but is shorter compared to isoform a.