

Product datasheet for **SC110854**

Choline kinase alpha (CHKA) (NM_001277) Human Untagged Clone

Product data:

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|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Choline kinase alpha (CHKA) (NM_001277) 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) |
| Fully Sequenced ORF: | >SC110854 representing NM_001277. Blue=Insert sequence Red=Cloning site Green=Tag(s) |

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ATGAAAACCAAATTCGACCGGGGCGAGGCGGAGCCCTCGCCGCTCGGGCTGCTGCTGAGCTGCGGT
AGCGGCAGCGCGGCCCGCGCCCGCGCTGGGGCAGCGCGCGACGCCAGCGACCTCGAGTCCAAG
CAGCTGGGCGGCCAACAGCCGCCGCTCGCGCTGCCCCCTCCGCCCGCTGCCGCTGCCGCTGCCGCTG
CCCCAGCCCCCGCGCCGAGCCGCCGCGAGCAGCAGCCGAGCCCCGGACCGGGCGCAGGGCCAT
CTGTGGTGCAAGGAGTTCCTGCCCGCGCCTGGCGGGCCTCCGCGAGGACGAGTCCACATCAGTGTC
ATCAGAGGCGGCCTTAGCAACATGCTGTTCCAGTGTCCCTACCTGACACCACAGCCACCCTTGGTGAT
GAGCCTCGAAAGTGCTCCTGCGGCTGTATGGAGCGATTTGCAGATGAGGTCTGTAATAAAGAGGGA
TCCGAACAAGCTCAGAAAGAAAATGAATTTCAAGGGGCTGAGGCCATGGTTCTGGAGAGCGTTATGTTT
GCCATTCTCGCAGAGAGGTCACTTGGGCCAAAACCTCTATGGCATCTTTCCCAAGCCGACTGGAGCAG
TTCATCCCAGCCGCGATTAGATACTGAAGAATTAAGTTTGCCAGATATTTCTGCAGAAATCGCCGAG
AAAATGGCTACATTTTATGGTATGAAAATGCCATTCAATAAGGAACCAAAATGGCTTTTTGGCACAATG
GAAAAGTATCTAAAGGAAGTGCTGAGAAATTAATTTACTGAGGAATCCAGAATAAAAAGCTCCACAAA
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GTTGTATTTTGCATAATGACTGTCAAGAAGGTAATATCTTGTGCTGGAAGGCCGAGAGAATCTGAA
AAACAGAACTGATGCTCATTGATTTTGAATACAGCAGTTACAATTACAGGGGATTCGACATTGAAAT
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TATCCCACCAAGAAACAACAGCTCCATTTTATTTCCAGTTACTTGCCTGCATTCCAAAATGACTTTGAA
AACCTCAGTACTGAAGAAAAATCCATTATAAAAAGAAGAAATGTTGCTTGAAGTTAATAGTTTGGCCTT
GCATCTCATTTCTCTGGGACTGTGGTCCATTGTACAAGCCAAGATTTATCTATTGAATTTGGGTAC
ATGGACTACGCCAAGCAAGTTTTGATGCCTATTTCCACCAGAAGAGGAAGCTTGGGGTGA

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| 5' Read Nucleotide Sequence: | >OriGene 5' read for NM_001277 unedited GCACGAGGGCGCCCGGCCGACTCTGAGCCTAGTCTCTCGCGCTGCGGCCGCCCGCCGCTCCTCGGGCCGCTGTGCGGCATGAAAACCAAATTTCTGCACCGGGGGCGAGGCGGAGCCCTCGCCGCTCGGGCTGCTGCTGAGCTGCGGTAGCGGCAGCGCGGCCCGCCCGCGCCG |
| 3' Read Nucleotide Sequence: | >OriGene 3' read for NM_001277 unedited CTCGAGGCCCGCAATTTAGNGTCGAGTTTTTTTCTTTTTTTTTTGGGTTTTTATTTTTT ATTTGTATAGTACAATCTCTGTGGTAGCAGAAATTATGCACAAAAACAATTCAAATAAG AGTTTCAGAGTAAAAAAGTCAGCTAAGACTGTATCCCGCAGGACATTTTCATATATATGG ATTTTCACAGCTACACTCGATCCACGCCCCACACCACATACAGGCTGCTGTCTCCACAAG AATGATGATGTCAGGGGCATCAGAAAGGTAAGGGCCGGGAAACCGGGCCTTGGAGAAC CCTGCCAGGGGAGGCCAGCCTACTCACAGGATCCGACACTCCAGGCAGAGCAGAGGGC AGGAGAGGCCAAAGAGCTAGGTCAAGCAGCTGGCTCCCCTGGGAGGGGAGCCGGGAGAC AGGGAGTCTCACAATGCCCCGTGGCCACGCATGGCTGTCTGCACACTCCATCAGGAG GAAGGGCAGGGGAGAAGTCACATGCAGTACAGTAAACTCATCAGTGTACACACGCCCA GCAGGAGGGGAGAGCTCTGCTCCACACGCTGGCGCCTTGGCTGCTCCAGAGCAATCCGC TGCTCCAGCTTACGCCATGGGACCAAGAGGGTAAAGGAGCAGCTTCTGGAGGCCCGAGGC AGAGGCCACCTTGCCACAGTACTGGCGACTNTGCAGTACATCTGCTCACTTGTCTGTC CCTTGGGAGTGAGCACCGTCTATAACACATCGGCATCTACAAAACCTGGTACAGTGTAC CCAGCCATCATGAAAATTAATCAACATTACCAAGTCCCTGCAGGTACCCTGCTCACTCT TGCTGGGTGCCTCATCTGACTGGAACACTTAACCCCAATATGAAATGCCCTCTCTAGAA TAAAAGATACAAAAGTGTGCCCTTGCACCTT |
| Restriction Sites: | NotI-NotI |
| ACCN: | NM_001277 |
| Insert Size: | 1374 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). |
| 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: | <u>NM_001277.2</u> |
| RefSeq Size: | 2733 bp |
| RefSeq ORF: | 1374 bp |
| Locus ID: | 1119 |
| UniProt ID: | <u>P35790</u> |

Cytogenetics: 11q13.2
Domains: Choline_kinase
Protein Families: Druggable Genome
Protein Pathways: Glycerophospholipid metabolism, Metabolic pathways

MW: 52.3 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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).