

Product datasheet for **SC126592**

CHKL (CHKB) (AK097775) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHKL (CHKB) (AK097775) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHKL
Synonyms:	CHETK; CHKL; CK; CKB; CKEKB; EK; EKB; MDCMC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >NCBI ORF sequence for AK097775, the custom clone sequence may differ by one or more nucleotides

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GTCCGAAGGGAGCGGAGCGCAGCCTGGCCTGGGGCCCGGTGAGCCCGGCCATGGCGGCCGAGGCGACA
GCTGTGGCCGGAAGCGGGGCTGTTGGCGGTGCCTGGCCAAAGACGGCTTGCAGCAGTCTAAGTGCCCGG
ACACTACCCCAAACGGCGGCGCCTCGTCGCTGTCGCGTGACGCCGAGTGCAGCCGAGGAGCTGAGG
GTTTACCCCGTGAGCGGAGGCCTCAGCAACCTGCTCTCCGCTGCTCGCTCCCGACCACCTGCCAGCG
TTGGCGAGGAGCCCGGGAGGTGCTTCTGCGGCTGTACGGAGCCATCTTGCAGGTGAGGGGTTGTGAGC
GCCGACGACCAAGTGGCTTAGGGCCTGTGCTTACGCGATGCGGGTAGTATTGTTCCCGTTGCGCAGTT
GAGGACACCGAGGTTACGGTCTGAGTAACACCTATTACACCGAAGCCTGGGCCTGATTCCCAGAGCT
TTGGGAGGCTGAGGCGAGAGGATCACTTGAGCACAGGAGTTCGAGACCAGCCTGGACAACATAGTGAGAC
CCCCATCTCTAAATAAAAATAGACCAACGCTAAAGCCTGTGCTCCAGAGCCTCCAGGCAATTGGATCAGA
AGTCGCAGCTCTGGTGGGAGGAAGGCGAGCCCTCATGTGTGTCCTGTGCCACTTTGCCTGGCCCTTT
GCTGTCCATCCTTTTTAGGGCGTGGACTCCCTGGTGCTAGAAAGCGTGATGTTCCGCATACTTGGCGAG
CGGTGCTGGGGCCCGAGCTGTACGGAGCTTCCAGAGGGCCGGCTGGAACAGTACATCCAGTACGGG
CCCAGTCTACCTCTCCTCCCCAAGGCACCTCCACCCCTAACCTACCCAGTGCCCAATGTCTGCTT
CCACATCCCTACCCCAAGTAGGGAATTTCCCCAAAACCTGACTTCCCTCATTGCCCCAGCCCTTCC
CACTCTGCCCCAGCCCATCACACCCTGATAGCTTCTGGGTGCGAGTTCGGCCATTGAAAACCTAAG
AGCTTCGAGAGCCAGTGTGTGACGAGCATTGCCACGAAGATGGCGCAATTTATGGCATGGAGATGCC
TTTACCAAGGAGCCCACTGGCTGTTGGGACCATGGAGCGGTACCTAAAACAGATCCAGGACCTGCC
CCAATGGCCTCCCTGAGATGAACCTGCTGGAGATGTACAGCCTGAAGGATGAGATGGGCAACCTCAGGA
AGTTACTAGAGTCTACCCATGCCAGCTGCTTCTGCCACAATGACATCCAGGAAGGAACTTTGCT
GCTCTCAGAGCCAGAAAATGCTGACAGCCTCATGCTGGTGGACTTCGAGTACAGCAGTTATAACTTAGG
GGCTTTGACATTGGGAACATTTTTGTGAGTGGGTTTATGATTATACTACGAGGAATGGCCTTTCTACA
AAGCAAGGCCACAGACTACCCCACTCAAGAACAGCAGAGGCAAAGAAAGGTGAGACCCTCTCCCAAGG
GAGCAGAGAAAAGTGAAGAAGATTTGCTGGTAGAAGTCAAGTCCGATGCTCTGGCATCCCATTTCTTCT
GGGGTCTGTGGTCCATCCTCCAGGCATCCATGTCCACCATAGAATTTGGTACTTGGACTATGCCAGTC
TCGGTTCAGTTCTACTCCAGCAGAAGGGCAGCTGACCAGTGTCCACTCCTCATCTGACTCCACCT
CCCCTCTTGGATTTCTCTGGAGCCTCCAGGGCAGGACCTGGAGGGAGGAACAACGAGCAGAAGGCC
CTGGGACTGGGCTGAGCCCCAAGTGAAGTGAAGTTCAGGAGACCGGCTGTTCTGAGTTTGTAGTAG
GTCCCATGGCTGGCAGGCCAGAGCCCGTGTGTATGTAACACAATAACAAGCTTCTTCTCC
    
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5' Read Nucleotide Sequence:

>OriGene 5' read for AK097775 unedited

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NCGGTTCAAATTTGATACGACTCCTATAGCGGCCGCGNATTCGGCACGAGGCGGAGCG
CAGCCTGGCCTGGGGCCCGTTCGAGCCCGCCATGGCGGCCGAGGCGACAGCTGTGGCC
GGAAGCGGGGCTGTTGGCGGCTGCCTGGCCAAAGACGGCTTGCAGCAGTCTAAGTGCCCG
GACACTACCCCAAACGGCGGCGCCTCGTCGCTGTCGCGTGACGCCGAGCGCCGAGCC
TACCAATGGTGCCGGGAGTACTTGGCGGGGCTGGCGCCGAGTGCAGCCGAGGAGCTG
AGGGTTTACCCCGTGGCGGAGGCTCAGCAACCTGCTTCCGCTGCTCGCTCCCGGAC
CACCTGCCAGCGTTGGCGAGGAGCCCGGGAGGTGCTTCTGCGGCTGTACGGAGCCATC
TTGCAGGGCGTGGACTCCCTGGTGTAGAAAGCGTGATGTTGCCATACTTGGGAGCGG
TCGCTGGGGCCCGAGCTGTACGGAGTCTCCAGAGGGCCGGCTGGAACAGTACATCCA
AGTCGGCCATTGAAAACCAAGAGCTTCGAGAGCCAGTGTGTCAGCAGCATTGCCACG
AAGATGGCGCAATTTATGGCATGGAGATGCCTTTACCAAGGAGCCCACTGGCTGTTT
GGGACCATGGAGCGGTACCTAAAACAGATCCAGGACCTGCCCAACTGGCTCCCTGAG
ATGAACCTGCTGGAGATGTACAGCCTGAAGGATGAGATGGGCAACCTCANGAAGTTACTA
GAGTCTACCCATCGNCAGTGTCTTCTGCCACATGACACCAGGAAGGTANGAGAAGCATC
TGAGTCTCCTAACCCAGATGGAGAGCCAGAGGCTCTGGAGTGGAGCAGAATCACCATTCC
CCCAGGNACATCTGCTCTCAGAGCCAGAATGCTGACAGCTCATGCTGTGA
    
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3' Read Nucleotide Sequence:	>OriGene 3' read for AK097775 unedited NNNAACGTTAAGCTATGNACCGCGCCGCAATCTATGATCGGTTTTTTTTTTTTTTTTTTTT TTTGCGAAAAAACTTGTATTGTGTACATACACAGCACGGGGCTCTGGCCTGCCAG CCATGGGGACCTACTCAAACCTCAGGGACAGGCCGGTCTCCTGAACCTCAGTTCACTTGG GGGCTCAGCCCAGTCGCCAGGCCCTTCTGCTCGTTGTTCTCCCTCCAAGTCTGCCCT GGAGGCTCCAGGAGAAATCCAAGGAGTGGGAGGGTGGAGTCAGGATGAGGAGTGGACACT GGTCAGCTGCCCTTCTGCTGGAAGTAGAACTGGAACCGAGACTGGGCATAGTCCAAGTA ACCAAATTCTATGGTGGACATGGATGCCTGGAGGATGGACCACAGACCCAGAAGAAATG GGATGCCAGAGCATACCGACTGACTTCTACCAGCAAATCTTCTCCAGTTTTCTCTGCTC CTCTTGGGAGAGGGTCTCACCTTTCTTGCCTCTGCCAGGTAATGACGAATAAAATGCAA CTGCTGTTCTTGAGTGGGTAGTCTGTGGGCCTTGCTTTGTAGAAAGGCCATTCTCGTG AGTATAATCATAAACCCACTCACAAAAATGGTTCCCAATGTCAAAGCCCTATAGTTATA ACTGCTGTACTCGAAGTCCACCAGCATGAGGCTGTGAGCATTCTGGCTCTGAGAGCAG CAAGATGTTCCCTGGGGGAATGGGGGTGAGGTTCTGCTCACTCCAGAGCCCTCTGGCTCT TCCATCTTGGGTTAAGAGACTCAGATGCCTTCTNCTACCTTCCCGGATGTCATTGTGGCA GAAGACGACTGGCGATGGGGTG
Restriction Sites:	NotI-NotI
ACCN:	AK097775
Insert Size:	1650 bp
OTI Disclaimer:	The sequence of an 'OriGene Unique Variant' differs significantly from the associated reference. It represents a novel splice variant from the same gene locus of the reference. Although such variants are true transcripts and present opportunity for discoveries, they are not yet curated by NCBI and should not be used if the exact reference accession sequence is required.
OTI Annotation:	This TrueClone was found to represent an alternative form of the specific reference to which it is associated. Its Open Reading Frame (ORF) may represent a novel form or alternative splice variant. By virtue of it being a true transcript (cDNA clone not PCR product), it provides a biologically relevant copy of its mRNA template. For more details, please evaluate the sequence information provided on this website or contact our customer care specialists.
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>AK097775.1</u>
RefSeq Size:	1957 bp
RefSeq ORF:	1957 bp
Locus ID:	1120

Cytogenetics:	22q13.33
Domains:	Choline_kinase
Protein Families:	Druggable Genome
Protein Pathways:	Glycerophospholipid metabolism, Metabolic pathways
Gene Summary:	<p>Choline kinase (CK) and ethanolamine kinase (EK) catalyze the phosphorylation of choline/ethanolamine to phosphocholine/phosphoethanolamine. This is the first enzyme in the biosynthesis of phosphatidylcholine/phosphatidylethanolamine in all animal cells. The highly purified CKs from mammalian sources and their recombinant gene products have been shown to have EK activity also, indicating that both activities reside on the same protein. The choline kinase-like protein encoded by CHKL belongs to the choline/ethanolamine kinase family; however, its exact function is not known. Read-through transcripts are expressed from this locus that include exons from the downstream CPT1B locus. [provided by RefSeq, Jun 2009]</p>