

Product datasheet for SC313284

CHKL (CHKB) (NM_005198) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHKL (CHKB) (NM_005198) Human Untagged Clone
Tag:	Tag Free
Symbol:	CHKL
Synonyms:	CHETK; CHKL; CK; CKB; CKEKB; EK; EKB; MDCMC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC313284 representing NM_005198. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCGGCCGAGGCGACAGCTGTGGCCGGAAGCGGGGCTGTTGGCGGCTGCCTGGCCAAAGACGGCTTG
CAGCAGTCTAAGTGCCCGGACACTACCCAAAACGGCGGCGCCTCGTCGCTGTCGCGTACGCCGAG
CGCCGAGCCTACCAATGGTGCCGGGAGTACTTGGGCGGGGCTGGCGCCGAGTGCAGCCCGAGGAGCTG
AGGGTTTACCCGTGAGCGGAGGCTCAGCAACCTGCTCTCCGCTGCTCGCTCCCGACCACCTGCC
AGCGTTGGCGAGGAGCCCGGGAGGTGCTTCTGCGGCTGTACGGAGCCATCTGCAGGGCGTGGACTCC
CTGGTGTAGAAAGCGTGATGTTCCGCATACTTGGGAGCGGTCGCTGGGCCCCAGCTGTACGGAGTC
TTCCAGAGGGCCGGCTGGAACAGTACATCCCAAGTCGGCCATTGAAAACCAAGAGCTTCGAGAGCCA
GTGTTGTACAGCAGCATTGCCACGAAGATGGCGCAATTTTCATGGCATGGAGATGCCTTTCACCAAGGAG
CCCCACTGGCTGTTGGGACCATGGAGCGGTACCTAAAACAGATCCAGGACCTGCCCCCAACTGGCCTC
CCTGAGATGAACCTGCTGGAGATGTACAGCCTGAAGGATGAGATGGGCAACCTCAGGAAGTTACTAGAG
TCTACCCCATCGCCAGTCGTCTTCTGCCACAATGACATCCAGGAAGGAAACATCTTGCTGCTCAGAG
CCAGAAAATGCTGACAGCCTCATGCTGGTGGACTTCGAGTACAGCAGTTAACTATAGGGGCTTTGAC
ATTGGGAACCATTTTTGTGAGTGGGTTTATGATTATACTACAGGAATGGCCTTTCTACAAAGCAAGG
CCCACAGACTACCCCACTCAAGAACAGCAGTTGCATTTTATTTCGTCATTACCTGGCAGAGGCAAAGAAA
GGTGAGACCCTCTCCCAAGAGGAGCAGAGAAAACCTGGAAGAAGATTTGCTGGTAGAAGTCAGTCGGTAT
GCTCTGGCATCCCATTTCTTCTGGGGTCTGTGGTCCATCCTCCAGGCATCCATGTCCACCATAGAATTT
GGTTACTTGACTATGCCAGTCTCGTTCAGTTCCTACTCCAGCAGAAGGGGAGCTGACCAGTGC
CACTCCTCATCTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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ACCN:	NM_005198
Insert Size:	1188 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:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	NM_005198.4
RefSeq Size:	1648 bp
RefSeq ORF:	1188 bp
Locus ID:	1120
UniProt ID:	Q9Y259
Cytogenetics:	22q13.33
Domains:	Choline_kinase
Protein Families:	Druggable Genome
Protein Pathways:	Glycerophospholipid metabolism, Metabolic pathways
MW:	45.3 kDa
Gene Summary:	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]