

# Product datasheet for SC109066

## CHKL (CHKB) (NM\_152253) Human Untagged Clone

### **Product data:**

#### OriGene Technologies, Inc.

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Product Type:	Expression Plasmids	
Product Name:	CHKL (CHKB) (NM_152253) Human Untagged Clone	
Tag:	Tag Free	
Symbol:	CHKL	
Synonyms:	CHETK; CHKL; choline/ethanolamine kinase; choline kinase-like; choline kinase beta; CKEKB; EKB	
Mammalian Cell Selection:	None	
Vector:	pCMV6-XL4	
E. coli Selection:	Ampicillin (100 ug/mL)	
Fully Sequenced ORF:	<pre>&gt;OriGene ORF within SC109066 sequence for NM_152253 edited (data generated by NextGen Sequencing) ATGGCGGCCGAGGCGACAGCTGTGGCCGGAAGCGGGGGCTGTTGGCGGCTGCCTGGCCAAA GACGGCTTGCAGCAGTCTAAGTGCCCGGACACTACCCCAAAACGGCGGCGCGCCTCGTCG CTGTCGCGTGACGCCGAGCGCCGAGCCTACCAATGGTGCCGGGAGTACTTGGGCGGGGGCC TGGCGCCGAGTGCAGCCCGAGGAGCTGAGGGTTTACCCCGTGAGGTGGGAGGTCAGGGGG CAGCCTCTCCGGTGCGCGGATCGGGGTCAGGGGTCAGCGGGGGCCGCGCGGGGCCTGCCGGGA ATGTTTTCGCCCCCCTCTTGCGCCCGCGCCTGGGGCGGGGCGGGGCCGGGCCTGGCGGGA GGGGGCCGGGGCCGCGGCAGGTAG</pre>	

Clone variation with respect to  $NM_{152253.1}$ 



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## SCHKL (CHKB) (NM\_15

CHKL (CHKB) (NM_152253	) Human Untagged C	lone – SC109066
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5' Read Nucleotide Sequence:	<pre>&gt;OriGene 5' read for NM_152253 unedited TTGGATTATGTAACACGATCTTATATAGGCGGCCGCGCAATTCGCACCAGGNAAAAAGCC CCCGGGCCGGGGCACGGAGAGACCCAGCCGCGCGCG</pre>
<b>Restriction Sites:</b>	Notl-Notl
ACCN:	NM_152253
Insert Size:	2500 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> <li>Centrifuge at 5,000xg for 5min.</li> <li>Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>Close the tube and incubate for 10 minutes at room temperature.</li> <li>Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
RefSeq:	NM 152253.1, NP 689466.1
RefSeq Size:	4914 bp
RefSeq ORF:	384 bp
Locus ID:	1120
Cytogenetics:	22q13.33
Domains:	Carn_acyltransf
Protein Families:	Druggable Genome
Protein Pathways:	Glycerophospholipid metabolism, Metabolic pathways

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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]

Transcript Variant: This variant (2) contains alternate segments in the coding region which causes a frameshift, compared to variant 1. The resulting protein (isoform b) is shorter and has a distinct C-terminus than isoform a. In addition, this variant is bicistronic, with the coding region of a carnitine palmitoyltransferase gene present in the 3' end of the transcript.

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