

Product datasheet for **RG222406**

CHKL (CHKB) (NM_152253) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CHKL (CHKB) (NM_152253) Human Tagged ORF Clone
Tag: TurboGFP
Symbol: CHKL
Synonyms: CHETK; CHKL; choline/ethanolamine kinase; choline kinase-like; choline kinase beta; CKEKB; EKB
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >RG222406 representing NM_152253
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGCGGCCGAGGCGACAGCTGTGGCCGGAAGCGGGCTGTTGGCGGCTGCCTGGCCAAAGACGGCTTGC
AGCAGTCTAAGTGCCCGGACACTACCCAAAACGGCGGCGCCTCGTCGCTGTCGCGTGACGCCGAGCG
CCGAGCCTACCAATGGTGCCGGGAGTACTTGGCGGGGCTGGCGCCGAGTGCAGCCGAGGAGCTGAGG
GTTTACCCCGTGAGGTGGGAGGTCAGGGGTGAGCCTCTCCGGTGC CGGATCGGGGTGAGGGTCAAGCCG
CGGGCCCTCAGGATGCTCCATGTTTTGCCCCCTCTTGGCCCCGCGCTGGGGCGGGGCGGGCCGGC
CTGGCCGGGAGGGGCGGGGCCGCGCAGG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG222406 representing NM_152253
Red=Cloning site Green=Tags(s)
MAAEATAVAGSGAVGGCLAKDGLQSKCPDTPKRRRASSLSRDAERRAYQWCREYLGGAWRRVQPEELR
VYPVRWEVRGQPLRCADRQGSAAAGPSGCSMFSPSCARAWGGAGPAWPGGGRGR

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI



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Cloning Scheme:


ACCN: NM_152253

ORF Size: 381 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_152253.1](#), [NP_689466.1](#)

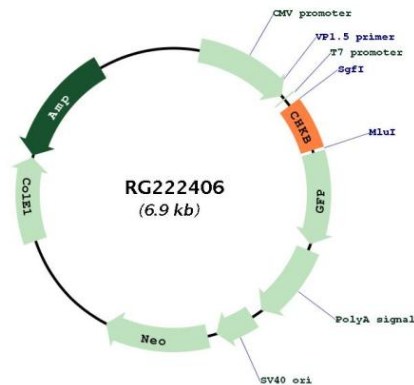
RefSeq Size: 4914 bp

RefSeq ORF: 383 bp

Locus ID: 1120

| | |
|--------------------------|--|
| Cytogenetics: | 22q13.33 |
| Domains: | Carn_acyltransf |
| Protein Families: | Druggable Genome |
| Protein Pathways: | Glycerophospholipid metabolism, Metabolic pathways |
| 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] |

Product images:



Circular map for RG222406