

## Product datasheet for **MR226317**

### Chka (NM\_013490) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chka (NM_013490) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chka
Synonyms:	Chetk-alpha; Chk; ChoK; CK; CK/EK-alpha; EK; EtnK-alpha
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR226317 representing NM\_013490  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAACCAAGTTCTGCACCGGGGCGAGGCCGAGCCGTCGCCTCTCGGGCTGCTGCTGAGCTGCGGTG  
 GCAACGCTGCCCGACGCCCGGGCTAGGGCAGCAGCGGGACGCCGAGGCGAGCTGGAGTCCAAGCAGCT  
 TGGTGGCCGAACCAACCTCTCGCGCTGCCGCCGCCGCCGCCGCCCTGCCGCTGCCCGCCGCCCA  
 TCACCGCCGCTAGCGGACGAACAACCCGAGCCCGGACCAGGCGCAGGGCCTACCTGTGGTGAAGGAAT  
 TCCTGCCCGGAGCCTGGCGAGGCCTTCGCGAGGACCAGTCCACATCAGTGTATCAGGGGTGGTCTCAG  
 TAACATGCTGTTCCAGTCTCCCTGCCAGACTCCATAGCCAGCGTTGGCGATGAGCCTCGAAAAGTGCTC  
 TTGCGGCTCTATGGGCAATCTAAAGATGGGGGCTGAGGCGATGGTTCTGGAGAGTGTATGTTTGCCA  
 TTCTTGACAGAGGTCACCTGGCCAAAACCTTTGGCATCTTTCCCAAGGCCGACTGGAGCAGTTTAT  
 CCCGAGCCGGCGATTGGACACTGAAGAGTTACGTTTACCAGATATTTCTGCAGAAATAGCTGAGAAAATG  
 GCCACATTTTCATGGTATGAAAATGCCATTCAATAAGGAACCAAAATGGCTTTTTGGAACAATGAAAAAT  
 ACCTGAATCAAGTACTAAGACTCAAATTCAGCAGGGAGGCCAGAGTTCAGCAACTGCACAAGATCCTCTC  
 TTACAACCTGCCTCTTGAGCTCGAGAACCTGAGGTCATTGCTGCAGTATACTAGATCTCCAGTTGTATTT  
 TGTGATAATGACTGTCAAGAAGTAATATCTTATTGTTGGAAGGCCAGGAGAAGCTCTGAAAGCGGAAGC  
 TGATGCTTATTGACTTTGAGTACAGCAGTTACAATTACAGGGGATTTGACATTGGAATCATTCTCTGTA  
 ATGGATGTATGATTATACCTATGAGAAGTATCCTTTCTCAGAGCGAACATTCAGAAGTATCCTTCCCGA  
 AAACAACAGCTCCATTTTATTTCCAGTTACTTGACTACATTCCAAAATGATTTTGAAGCCTCAGTAGTG  
 AAGAGCAGTTTGGCTACAAAAGAAGACATGTTGCTTGAAGTCAACAGATTTGCTCTTGCTCTCATTTCCT  
 CTGGGGACTTTGGTCCATTGTACAGGCCAAGATCTCATCCATTGAATTTGGGTACATGGAATATGCCCAA  
 GCCAGATTCGAGGCCACTTTGACCAGAAGAGGAAGCTTGGGGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR226317 representing NM\_013490  
 Red=Cloning site Green=Tags(s)

MKTKFCTGGEAEPSPGLLLLSCGGNAAPTPGVGQQRDAAGELESKQLGGRTQPLALPPPPPPPLPLPPP  
 SPPLADEQPEPRTRRRAYLWCKEFLPGAWRGLREDQFHISVIRGGLSNMLFQCSLPDSIASVGDEPRKVL  
 LRLYGAILKMGAEMVLESVMFAILAERSLGPFLGIFPQGRLEQFIPSRRLDTEELRLPDISAEIAEKM  
 ATFHGMKMPFNKEPKWLFGTMEKYLNQVRLKFSREARVQQLHKILSYNLPLELENLRSLLQYTRSPVVF  
 CHNDCQEGNILLLEGQENSERRKMLIDFEYSSNYRGFDIGNHFCWMYDYTYEKYPFFRANIQKYPYSR  
 KQQLHFISSYLTTFQNDFESLSSEEQFATKEDMLLEVNRFFALASHFLWGLWSIVQAKISSIEFGYMEYQA  
 ARFEAYFDQKRKLGV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/ja1212\\_h03.zip](https://cdn.origene.com/chromatograms/ja1212_h03.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_013490

**ORF Size:** 1305 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\\_013490.4](#), [NP\\_038518.2](#)

**RefSeq Size:** 2589 bp

**RefSeq ORF:** 1308 bp

**Locus ID:** 12660

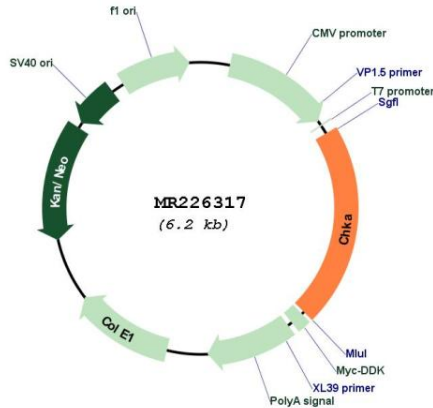
**UniProt ID:** [O54804](#)

**Cytogenetics:** 19 3.57 cM

**MW:** 50.4 kDa

**Gene Summary:** Has a key role in phospholipid biosynthesis and may contribute to tumor cell growth. Catalyzes the first step in phosphatidylcholine biosynthesis. Contributes to phosphatidylethanolamine biosynthesis. Phosphorylates choline and ethanolamine. Has higher activity with choline (By similarity).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR226317