

Product datasheet for **MR229984**

Chka (NM_001271496) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chka (NM_001271496) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chka
Synonyms:	Chetk-alpha; Chk; ChoK; CK; CK/EK-alpha; EK; EtnK-alpha
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>MR229984 representing NM_001271496
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAAACCAAGTTCTGCACCGGGGCGAGGCCGAGCCGTCGCCTCTCGGGCTGCTGCTGAGCTGCGGTG
 GCAACGCTGCCCCGACGCCCGGGCTAGGGCAGCAGCGGGACGCCGAGGGAGCTGGAGTCCAAGCAGCT
 TGGTGGCCGAACCAACCTCTCGCGCTGCCGCCGCCGCCGCCGCCCTGCCGCTGCCCCGCCGCCA
 TCACCGCCGCTAGCGGACGAACAACCCGAGCCCGGACCAGGCGCAGGGCCTACCTGTGGTGAAGGAAT
 TCCTGCCCGGAGCCTGGCGAGGCCTTCGCGAGGACCAGTCCACATCAGTGTATCAGGGGTGGTCTCAG
 TAACATGCTGTTCCAGTCTCCCGCAGACTCCATAGCCAGCGTTGGCGATGAGCCTCGAAAAGTGCTC
 TTGCGGCTCTATGGGCAATCTAAAGATGAGGTCTGTAAAGAGGGATCCGAACAAGCTCAGAAATG
 AAAATGAATTTCAAGGGCTGAGGCGATGGTCTGGAGAGTGTTATGTTTGCCATCTTGCAGAGAGGTC
 ACTTGGGCCAAAACCTCTTTGGCATCTTTCCCAAGGCCGACTGGAGCAGTTTATCCCGAGCCGGCGATTG
 GACTGAAGAGTTACGTTTACCAGATATTTCTGCAGAAATAGCTGAGAAAATGGCCACATTTTCATGGTA
 TGAAAATGCCATTCATAAGGAACCAAAATGGCTTTTGGAAACAATGAAAAATACCTGAATCAAGTACT
 AAGACTCAAATTCAGCAGGGAGGCCAGAGTTCAGCAACTGCACAAGATCCTCTCTTACAACCTGCCTCTT
 GAGCTCGAGAACCTGAGGTCACTTGTGCAGTATACTAGATCTCCAGTTGTATTTTGTCAATGACTGTC
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 TGAGTACAGCAGTTACAATTACAGGGGATTTGACATTGGAATCATTTCTGTGAATGGATGTATGATTAT
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 AAAAGAAGACATGTTGCTTGAAGTCAACAGATTTGCTCTTGCCTCTCATTCTCTGGGGACTTTGGTCC
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 ACTTTGACCAGAAGGAAGCTTGGGGT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence:

>MR229984 representing NM_001271496
 Red=Cloning site Green=Tags(s)

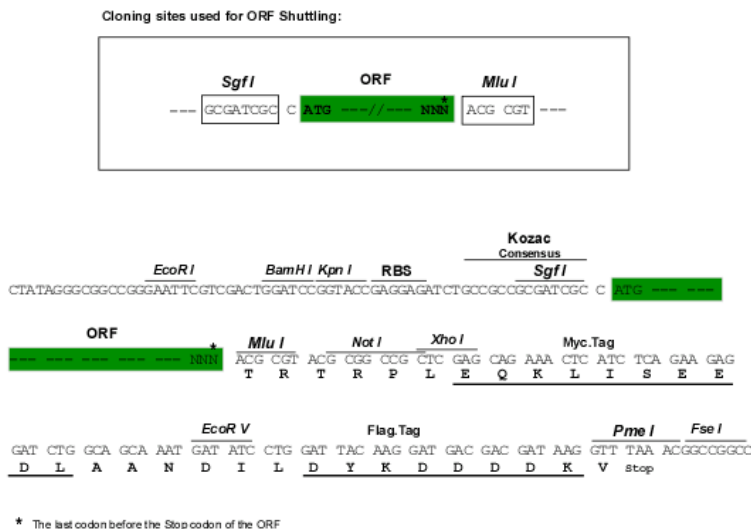
MKTKFCTGGEAEPSPLGLLLSCGNAAPTPGVGQQRDAAGELESKQLGGRTQPLALPPPPPPPLPLPPP
 SPPLADEQPEPRRRRAYLWCKEFLPGAWRGLREDQFHISVIRGGLSNMLFQCCLPDSIASVGDPRKVL
 LRLYGAILKMRSCNKEGSEQAQENEFQGAEMVLESVMFAILAERSLGPKLFGIFPQGRLEQFIPSRRL
 DTEELRLPDISAEIAEKMATFHGMKMPFNKEPKWLFGTMEKYLNQVLRKFSREARVQQLHKILSYNPL
 ELENLRSLLQYTRSPVVFCHNDCQEGNILLLEGQENSERRKMLIDFEYSSYNRGRFDIGNHFCWEMYDY
 TYEKYPFFRANIQKYPYSRKQQLHFISSYLTTFQNDFESLSSEEQFATKEDMLLEVNRFFALASHFLWGLWS
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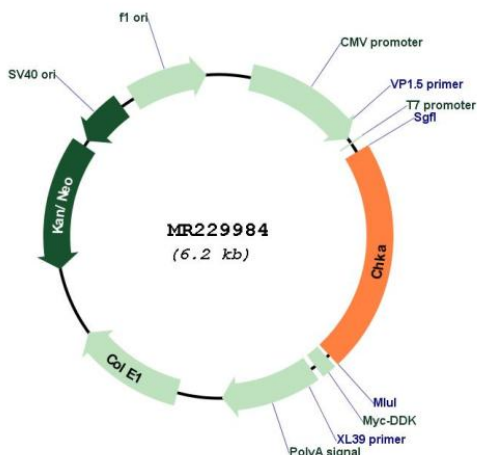
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001271496

ORF Size: 1359 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_001271496.1](#), [NP_001258425.1](#)

RefSeq Size: 2627 bp

RefSeq ORF: 1362 bp

Locus ID: 12660

UniProt ID: [O54804](#)

Cytogenetics: 19 3.57 cM

MW: 52.4 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]