

Product datasheet for **MC227773**

Chka (NM_001271496) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chka (NM_001271496) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC227773 representing NM_001271496
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGCATCGCC**

ATGAAAACCAAGTTCTGCACCGGGGCGAGGCCGAGCCGTCGCCTCTCGGGCTGCTGCTGAGCTGCGGTG
GCAACGCTGCCCCGACGCCCGCGTAGGGCAGCAGCGGGACGCCGAGGCGAGCTGGAGTCCAAGCAGCT
TGGTGGCCGAACCAACCTCTCGCGCTGCCGCCGCCGCCGCCGCCCTGCGCTGCCCCGCCGCCA
TCACCGCCGCTAGCGGACGAACAACCCGAGCCCGGACCAGGCGCAGGGCCTACCTGTGGTGAAGGAAT
TCCTGCCCGGAGCCTGGCGAGGCCTTCGCGAGGACCAGTCCACATCAGTGTATCAGGGGTGGTCTCAG
TAACATGTGTTCCAGTCTCCCGCCAGACTCCATAGCCAGCGTTGGCGATGAGCCTCGAAAAGTGCTC
TTGCGGCTCTATGGGCAATCTAAAGATGAGGTCTGTAAAGAGGGATCCGAACAAGCTCAGAATG
AAAATGAATTTCAAGGGCTGAGGCGATGGTTCTGGAGAGTGTTATGTTTGCCATCTTGCAGAGAGGTC
ACTTGGGCCAAAACCTCTTTGGCATCTTTCCCAAGGCCGACTGGAGCAGTTTATCCCGAGCCGGCGATTG
GACACTGAAGAGTTACGTTTACCAGATATTTCTGCAGAAATAGCTGAGAAAATGGCCACATTTTCATGGTA
TGAAAATGCCATTCATAAGGAACCAAAATGGCTTTTGGAAACAATGGAAAATACCTGAATCAAGTACT
AAGACTCAAATTCAGCAGGGAGGCCAGAGTTCAGCAACTGCACAAGATCCTCTCTTACAACCTGCCTCTT
GAGCTCGAGAACCTGAGGTCACTTGTGCAGTATACTAGATCTCCAGTTGTATTTTGTGATAATGACTGTC
AAGAAGGTAATATCTTATTGTTGGAAGGCCAGGAGAACCTGAAAGGCCGGAAGCTGATGCTTATTGACTT
TGAGTACAGCAGTTACAATTACAGGGGATTTGACATTGGAATCATTTCTGTGAATGGATGTATGATTAT
ACCTATGAGAAGTATCCTTTCTCAGAGCGAACATTGAGAAGTATCCTTCCGAAAACAACAGCTCCATT
TTATTTCCAGTTACTTGACTACATTCAAAATGATTTTGAAGCCCTCAGTAGTGAAGAGCAGTTTGCTAC
AAAAGAAGACATGTTGCTTGAAGTCAACAGATTTGCTCTTGCTCTCATTTCCTCTGGGGACTTTGGTCC
ATTGTACAGGCCAAGATCTCATCCATTGAATTTGGGTACATGGAATATGCCCAAGCCAGATTCGAGGCTC
ACTTTGACCAGAAGGAAGCTTGGGGTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja3755_f07.zip

Restriction Sites: SgfI-MluI

ACCN: NM_001271496

Insert Size: 1362 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: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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

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]
Transcript Variant: This variant (3) contains an alternate in-frame exon, compared to variant 1. The encoded isoform (3) is longer than isoform 1. Sequence Note: The RefSeq transcript and protein were derived from genomic sequence to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on alignments.