

Product datasheet for **MC206896**

Phca (BC023924) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Phca (BC023924) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Phca
Synonyms:	1110057L18Rik; 5430429L08Rik; AV015045; Phca
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC206896 representing BC023924. Blue=ORF Red=Cloning site Green=Tag(s)

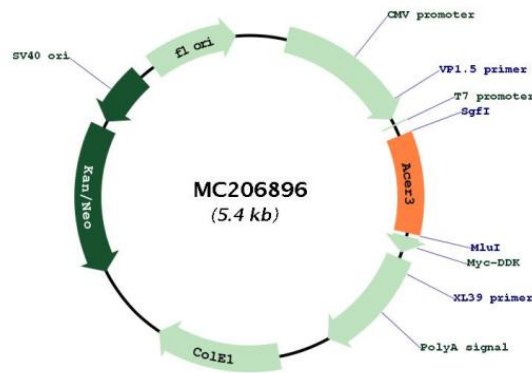
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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCTCCGGCTGTGGACCGCAAAGGCTATTGGGGCCCCACGACCTCCACATTGGACTGGTGTGAGGAG
AACTATGTGGTGACCTTGTTCGTCGCTGAGTCTGGAATACAGTGAGTAACCTGATTATGATCATACT
CCAATTTTGGTGAATCAAGGCATTAGAGACAGACTGGAGAAGCGGTACATTGCTGCTACTTAGCA
CTCACAGTGGTAGGAATGGGATCCTGGTGTTCACATGACTCTGAAATATGAAATGCAGCTGTTGGAT
GAGCTCCCATGATTTACAGCTGCTGCATATTTGTATACTGCATGTTTGAGTGTTCAAGACAAAGAGC
TCAATAAACTACCATCTTCTTTTACCCTATTTCTATACAGTTTAAACAGTAACTACGATTTACCTAAAA
GTCAAAGAACCTATATCCATCAGGTCATGTATGGAATGTTGGTCTTTACATTAGTACTTCGTTCTATT
TATATTGTTACATGTGTATCTCCAGAGTCTTGCTGTACTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGCC
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Restriction Sites: Sgfl-Mlul



[View online »](#)

Plasmid Map:



ACCN: BC023924

Insert Size: 525 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: 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: [BC023924](#)

RefSeq Size: 1460 bp

RefSeq ORF: 524 bp

Locus ID: 66190

Cytogenetics: 7 E1

MW: 20.3 kDa

Gene Summary: Endoplasmic reticulum and Golgi ceramidase that catalyzes the hydrolysis of unsaturated long-chain C18:1-, C20:1- and C20:4-ceramides, dihydroceramides and phytoceramides into sphingoid bases like sphingosine and free fatty acids at alkaline pH (PubMed:26474409). Ceramides, sphingosine, and its phosphorylated form sphingosine-1-phosphate are bioactive lipids that mediate cellular signaling pathways regulating several biological processes including cell proliferation, apoptosis and differentiation (PubMed:26474409). Controls the generation of sphingosine in erythrocytes, and thereby sphingosine-1-phosphate in plasma (By similarity). Through the regulation of ceramides and sphingosine-1-phosphate homeostasis in the brain may play a role in neurons survival and function (PubMed:26474409). By regulating the levels of proinflammatory ceramides in immune cells and tissues, may modulate the inflammatory response (PubMed:26938296).[UniProtKB/Swiss-Prot Function]