

Product datasheet for **MC219690**

Ache (NM_009599) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ache (NM_009599) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Ache
Synonyms:	mE1a; mE1b; mE1c; mE1c-long; mE1d; mE1d'; mE1e
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC219690 representing NM_009599
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAGGCCTCCCTGGTATCCCCTGCATACACCTTCCCTGGCTTTTCCACTCCTCTTCCCTCCTCTCCC
 TCCTGGGAGGAGGGCAAGGGCTGAGGGCCGGAAGACCCGACGTGCTGGTGAGGGTTCGAGGGGCCA
 GCTGAGGGGCATCCGCTGAAGGCCCTGGAGGCCAGTCTCAGCTTTTCTGGGCATCCCCTTTCAGAG
 CCACCTGTGGGCTCACGTAGATTATGCCACCAGAGCCCAAGCGGCCCTGGTCAGGAGTGTGGATGCTA
 CCACCTTCCAAAATGTCTGCTACCAGTACGTGGACACCTGTACCCTGGGTTTGGAGGACTGAGATGTG
 GAACCCCAACCGAGAGTTGAGTGAAGACTGCCTGTATCTTAATGTGTGGACACCATACCCAGACCTGCT
 TCTCCACACCTGCTCCTCATCTGGATCTATGGGGTGGTTTCTACAGCGGAGCGGCTCCTTGGATGTGT
 ATGACGGCCGTTTCTGGCCAGGTTGAGGGAGCTGTGTTGGTATCTATGAACTACCGAGTGGGAACCTT
 TGGCTTCTTGGCCCTACCAGGAAGCAGAGAAGCCCTGGCAATGTAGGTCTGCTGGATCAACGGCTTGCC
 TTGCAATGGGTGCAAGAAAATATTGCAGCCTTTGGGGCCGACCCGATGTCAGTGACTCTGTTTGGGGAGA
 GTGCGGGTGCAGCCTCCGTGGGCATGCACATACTGTCCCTGCCAGCAGGAGCCTCTCCACAGGGCTGT
 CCTCCAGAGTGGCACACCCAATGGGCCCTGGGCCACTGTGAGTGTGGAGAGGCCAGGCGCAGGGCCACA
 CTGCTGGCCCGCCTTGTGGGCTGTCCCCAGGTGGCGCTGGTGGCAATGACACCGAGCTGATAGCCTGCT
 TGAGGACAAGGCCGCTCAGGACCTGGTGGACCAGAGTGGCAGCTCCTGCCTCAAGAAAGTATCTTCCG
 ATTTTCTTCTGCTGCTGGTAGACGGGACTTCTCAGTGACACACCGGAGGCTCTCATCAACTGGA
 GATTTTCAAGACCTGCAGGTGCTGGTGGTGTGGTGAAGGACGAGGGCTCCTACTTCTGGTTTACGGGG
 TCCAGGCTTTCAGCAAAGACAATGAATCTCTCATCAGCCGGGCCAGTTTCTGGCTGGGGTGCAGATCGG
 TGTACCCCAAGCAAGTGACCTGGCAGCCGAGGCTGTGGTCTGCATTACACAGACTGGCTGCACCCCTGAG
 GACCTACTCACCTGAGAGATGCCATGAGTGCAGTGGTAGGCGACCACAACGTTGTGTCCTGTGGCCC
 AGCTGGCTGGGCGACTGGCTGCCAAGGGGCCGGGTCTATGCCTACATCTTTGAACACCGTGCCTCCAC
 ACTGACTTGGCCCTCTGGATGGGGTGGCCCATGGCTATGAAATCGAGTTCATCTTTGGGCTCCCCCTG
 GATCCCTCGTGAACACACCACGGAGGAGAGGATCTTTGCTCAGCGACTTATGAAATACTGGACCAATT
 TTGCCCGCACAGGGACCCCAATGACCCTCGAGACTCAAATCTCCACAGTGGCCACCGTACACCACTGC
 CGCGCAGCAATATGTGAGCCTGAACCTGAAGCCCTTAGAGGTGCGCGGGGACTGCGCGCCAGACCTGC
 GCCTTCTGGAATCGCTTCTCCCAAATGCTCAGCGCCACCGATACTCTGGACGAGGCGGAGCGCCAGT
 GGAAGGCCGAGTTCACCGCTGGAGCTCCTACATGGTGCCTGGAAGAACCAGTTCGACCACTATAGCAA
 GCAGGAGCGCTGCTCAGACCT**GTGA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Chromatograms: https://cdn.origene.com/chromatograms/ja2341_f07.zip

Restriction Sites: SgfI-MluI

ACCN: NM_009599

Insert Size: 1845 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

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_009599.3](#), [NP_033729.1](#)

RefSeq Size: 2224 bp

RefSeq ORF: 1845 bp

Locus ID: 11423

UniProt ID: [P21836](#)

Cytogenetics: 5 76.32 cM

Gene Summary: Terminates signal transduction at the neuromuscular junction by rapid hydrolysis of the acetylcholine released into the synaptic cleft.[UniProtKB/Swiss-Prot Function]
 Transcript Variant: This variant (2) uses an alternate splice site in the 5' UTR compared to variant 1. Both variants 1 and 2 encode the same protein.