

Product datasheet for **MR226310**

Ache (NM_009599) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ache (NM_009599) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)



[View online »](#)

ORF Nucleotide Sequence:

>MR226310 representing NM_009599
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGCCTCCCTGGTATCCCCTGCATACACCTTCCCTGGCTTTTCCACTCCTCTTCCCTCCTCTCCC
 TCCTGGGAGGAGGGCAAGGGCTGAGGGCCGGGAAGACCCGACGTGCTGGTGAGGGTTCGAGGGGCCA
 GCTGAGGGGCATCCGCTGAAGGCCCTGGAGGCCAGTCTCAGCTTTTCTGGGCATCCCCTTTCAGAG
 CCACCTGTGGGCTCACGTAGATTATGCCACCAGAGCCCAAGCGGCCCTGGTCAGGAGTGTGGATGCTA
 CCACCTTCCAAAATGTCTGCTACCAGTACGTGGACACCCGTACCTGGGTTTGAGGGTACTGAGATGTG
 GAACCCCAACCGAGAGTTGAGTGAAGACTGCCTGTATCTTAATGTGTGGACACCATACCCAGACCTGCT
 TCTCCACACCTGCTCATCTGGATCTATGGGGTGGTTTCTACAGCGGAGCGGCCCTCTTGGATGTGT
 ATGACGGCCGTTTCTGGCCAGGTTGAGGGAGCTGTGTTGGTATCTATGAACTACCGAGTGGGAACCTT
 TGGCTTCTTGGCCCTACCAGGAAGCAGAGAAGCCCTGGCAATGTAGGTCTGCTGGATCAACGGCTTGCC
 TTGCAATGGGTGCAAGAAAATATTGCAGCCTTTGGGGGCGACCCGATGTCAGTGACTCTGTTTGGGGAGA
 GTGCGGGTGCAGCCTCCGTGGGCATGCACATACTGTCCCTGCCAGCAGGAGCCTCTCCACAGGGCTGT
 CCTCCAGAGTGGCACACCCAATGGGCCCTGGGCCACTGTGAGTGTGGAGAGGCCAGGCGCAGGGCCACA
 CTGCTGGCCCGCCTTGTGGGCTGTCCCCAGGTGGCGCTGGTGGCAATGACACCGAGCTGATAGCCTGCT
 TGAGGACAAGGCCCGCTCAGGACCTGGTGGACCAGAGTGGCAGCTCCTGCCTCAAGAAAGTATCTTCCG
 ATTTTCTTCTGCTGCTGGTAGACGGGACTTCTCAGTGACACACCGGAGGCTCTCATCAATACTGGA
 GATTTTCAAGACCTGCAGGTGCTGGTGGTGTGGTGAAGGACGAGGGCTCCTACTTCTGGTTTACGGGG
 TCCCAGGCTTCAAGCAAGACAATGAATCTCTCATCAGCCGGGCCAGTTCTGGCTGGGTGCGGATCGG
 TGTACCCCAAGCAAGTGACCTGGCAGCCGAGGCTGTGGTCTGCATTACACAGACTGGCTGCACCCCTGAG
 GACCTACTCACCTGAGAGATGCCATGAGTGCAGTGGTAGGCGACCACAACGTTGTGCGCTGTGGCC
 AGCTGGCTGGCGACTGGCTGCCAAGGGGCCGGTCTATGCCTACATCTTGAACACCGTGCCTCCAC
 ACTGACTTGGCCCTCTGGATGGGGTGGCCATGGCTATGAAATCGAGTTCATCTTGGCTCCCCCTG
 GATCCCTCGTGAACACACCACGGAGGAGGATCTTGTCTCAGCGACTTATGAAATACTGGACCAATT
 TTGCCCGCACAGGGACCCCAATGACCCTCGAGACTCAAATCTCCACAGTGGCCACCGTACACCACTGC
 CGCGCAGCAATATGTGAGCCTGAACCTGAAGCCCTTAGAGGTGCGCGGGGACTGCGCGCCAGACCTGC
 GCCTTCTGGAATCGCTTCTCCCAAATGCTCAGCGCCACCGATACTCTGGACGAGGCGGAGCGCCAGT
 GGAAGGCCGAGTCCACCGCTGGAGCTCTACATGGTGCAGTGAAGAACCAGTTCGACCACTATAGCAA
 GCAGGAGCGCTGCTCAGACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR226310 representing NM_009599
 Red=Cloning site Green=Tags(s)

MRPPWYPLHTPSLAFPLLFLLLSLLGGGARAEGREDPQLLVRVRGGQLRGIRLKAPGGPVSAFLGIPFAE
 PPVGSRRFMPPEPKRPWSGVLDATTFQNVYQYVDLTPGFEGTEMWNPRELSEDCLYLNWTPYPRPA
 SPTPVL IWIYGGGFYSGAASLDVYDGRFLAQVEGAVLVSMNYRVGTFGLALPGSREAPGNVGLLDQRLA
 LQWVQENIAAFGGDPMSVTLFGESAGAASVGMHILSLPSRSLFHRAVLQSGTPNGPWATVSAGEARRRAT
 LLARLVGCPPGGAGGNDTELIACLRTPAQDLVDHEWHVLPQESIFRFSFVPVVDGDFLSDTPEALINTG
 DFQDLQVLVGVKDEGSYFLVYVPGFSKDNESLISRAQFLAGVRIGVPQASDLAAEAVVLHYTDWLHPE
 DPTHLRDAMSAVVGDHNVVCPVAQLAGRLAAQGARYAYIFEHRASLTWPLWMGVPHGYEIEFIFGLPL
 DPSLNYTTEERIFAQRLMKYWTNFARTGDPNDPRDSKSPQWPPYTAAQQYVSLNLKPLEVRRGLRAQTC
 AFWNRFLPKLLSATDLDLDEAERQWKAEFHRWSSYVHWNQFDHYSKQERCSDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9039_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_009599

ORF Size: 1842 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](#)

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_009599.4](#), [NP_033729.1](#)

RefSeq Size: 2184 bp

RefSeq ORF: 1845 bp

Locus ID: 11423

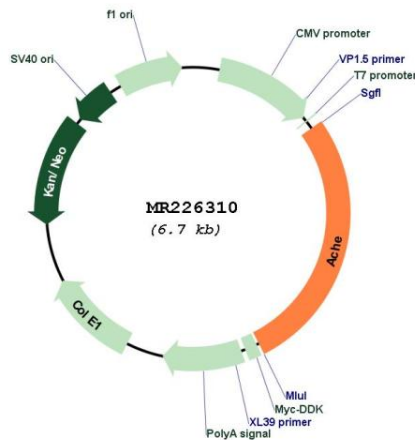
UniProt ID: [P21836](#)

Cytogenetics: 5 76.32 cM

MW: 68.6 kDa

Gene Summary: Terminates signal transduction at the neuromuscular junction by rapid hydrolysis of the acetylcholine released into the synaptic cleft.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR226310