

## Product datasheet for **MR230682**

### Ache (NM\_001290010) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Ache (NM_001290010) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ache
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR230682 representing NM\_001290010  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGCCTCCCTGGTATCCCCTGCATACACCTTCCCTGGCTTTTCCACTCCTCTTCCCTCCTCTCCC  
 TCCTGGGAGGAGGGCAAGGGCTGAGGGCCGGGAAGACCCGCAGCTGCTGGTGGGGTTCGAGGGGGCCA  
 GCTGAGGGGCATCCGCCTGAAGGCCCTGGAGGCCAGTCTCAGCTTTTCTGGGCATCCCCTTTCAGAG  
 CCACCTGTGGGCTCACGTAGATTATGCCACCAGAGCCCAAGCGGCCCTGGTCAGGAGTGTGGATGCTA  
 CCACCTTCCAAAATGTCTGCTACCAGTACGTGGACACCCGTACCTGGGTTTGGGGTACTGAGATGTG  
 GAACCCCAACCGAGAGTTGAGTGAAGACTGCCTGTATCTTAATGTGTGGACACCATACCCAGACCTGCT  
 TCTCCACACCTGCTCCTCATCTGGATCTATGGGGTGGTTTCTACAGCGGAGCGGCCCTCTGGATGTGT  
 ATGACGGCCGTTTCTGGCCAGGTTGAGGGAGCTGTGTTGGTATCTATGAACTACCGAGTGGGAACCTT  
 TGCTTCTTGGCCCTACAGGAAGCAGAGAAGCCCTGGCAATGTAGGTCTGCTGGATCAACGGCTTGCC  
 TTGCAATGGGTGCAAGAAAATATTGCAGCCTTTGGGGGCGACCCGATGTCAGTACTCTGTTTGGGAGA  
 GTGCGGGTGCAGCCTCCGTGGGCATGCACATACTGTCCCTGCCAGCAGGAGCCTTCCACAGGGCTGT  
 CCTCCAGAGTGGCACACCCAATGGGCCCTGGGCCACTGTGAGTGTGGAGAGGCCAGGCGCAGGGCCACA  
 CTGCTGGCCCGCCTTGTGGGCTGTCCCCAGGTGGCGCTGGTGGCAATGACACCGAGCTGATAGCCTGCT  
 TGAGGACAAGGCCCGCTCAGGACCTGGTGGACCAGAGTGGCAGCTCCTGCCTCAAGAAAGTATCTTCCG  
 ATTTTCTTCTGCTGCTGGTAGACGGGACTTCTCAGTGACACACCGGAGGCTCTCATCAACTGGA  
 GATTTTCAAGACCTGCAGGTGCTGGTGGTGTGGTGAAGGACGAGGGCTCCTACTTCTGGTTTACGGGG  
 TCCCAGGCTTACGAAAGACAATGAATCTCTCATCAGCCGGGCCAGTTTCTGGCTGGGGTGCAGCTCGG  
 TGTACCCCAAGCAAGTGACCTGGCAGCCGAGGCTGTGGTCTGCATTACACAGACTGGCTGCACCTGAG  
 GACCTACTCACCTGAGAGATGCCATGAGTGCAGTGGTAGGCGACCACAACGTTGTGCCTGTGGCC  
 AGCTGGCTGGCGACTGGCTGCCAAGGGGCCGGTCTATGCCTACATCTTTGAACACCGTGCCTCCAC  
 ACTGACTTGGCCCTCTGGATGGGGTGGCCATGGCTATGAAATCGAGTTCATCTTTGGCTCCCCCTG  
 GATCCCTCGTGAACACACCACGGAGGAGGATCTTTGCTCAGCGACTTATGAAATACTGGACCAATT  
 TTGCCCGCACAGGGACCCCAATGACCCTCGAGACTCAAATCTCCACAGTGGCCACCGTACACCACTGC  
 CGCGCAGCAATATGTGAGCCTGAACCTGAAGCCCTTAGAGGTGCGCGGGGACTGCGCGCCAGACTGC  
 GCCTTCTGGAATCGTTTCTCCCAAATGCTCAGCGCCACCGATACTCTGGACGAGGCGGAGCGCCAGT  
 GGAAGGCCGAGTTCACCGCTGGAGCTCTACATGGTGCCTGGAAGAACCAGTTCGACCACTATAGCAA  
 GCAGGAGCGCTGCTCAGACCTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230682 representing NM\_001290010  
 Red=Cloning site Green=Tags(s)

MRPPWYPLHTPSLAFPLLFLLLSLLGGGARAEGRDPQLLVVRVGGQLRGIRLKAPGGPVSAFLGIPFAE  
 PPVGSRRFMPPEPKRPWSGVLDATTFQNVYQYVDLTPGFEGTEMWNPNSRESDCLYLNWTPYPRPA  
 SPTPVL IWIYGGGFYSGAASLDVYDGRFLAQVEGAVL VSMNYRVGTFGFLALPGSREAPGNVGLLDQRLA  
 LQWVQENIAAFGGDPMSVTLFGESAGAASVGMHILSLPSRSLFHRAVLQSGTPNGPWATVSAGEARRRAT  
 LLARLVGCPPGGAGGNDTELIACLRTPAQDLVDHEWHVLPQESIFRF SFVPVVDGDFLSDTPEALINTG  
 DFQDLQVLVGVVKDEGSYFLVYGVPGFSKDNESLISRAQFLAGVRIGVPQASDLAAEAVVLHYTDWLHPE  
 DPTHLRDAMS AVVDHNVVCPVAQLAGRLAAQGARVYAYIFEHRASLTWPLWMGVPHGYEIEFIFGLPL  
 DPSTLNYTTEERIFAQRLMKYWTNFARTGDPNDPRDSKSPQWPPYTTAAQQYVSLNLKPLEVRRGLRAQTC  
 AFWNRFLPKLLSATDTLDEAERQWKAEFHRWSSYMVHWKNQFDHYSKQERCSDL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001290010

**ORF Size:** 1842 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\\_001290010.1](#), [NP\\_001276939.1](#)

**RefSeq Size:** 2227 bp

**RefSeq ORF:** 1845 bp

**Locus ID:** 11423

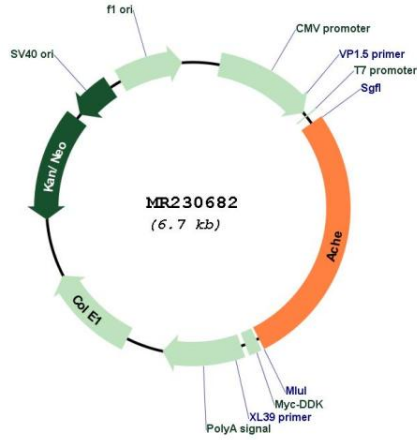
**UniProt ID:** [P21836](#)

**Cytogenetics:** 5 76.32 cM

**MW:** 68.2 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 MR230682