

Product datasheet for **RR212424**

Ache (NM_172009) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Ache (NM_172009) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Ache
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR212424 representing NM_172009
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGGCCTCCCTGGTATCCCCTGCATACACCCTCCCTGGCTTCTCCACTCCTCTTCTCCTCCTCTCCC
 TCCTGGGAGGAGGGCAAGGGCTGAGGGCCGGGAAGACCCTCAGCTGCTGGTGAGGGTTCGAGGGGGCCA
 GCTGAGGGGCATCCGCCTGAAGGCCCTGGAGGCCAGTCTCAGCTTTTCTGGGCATCCCCTTTCGAGAG
 CCACCTGTGGGCTCACGTAGATTATGCCACCAGAGCCCAAGCGCCCTGGTCAGGAATATTGGATGCTA
 CCACCTTCCAAAATGTCTGCTACCAATACGTGGACACCCTGTACCCTGGGTTTGGAGGTACCGAGATGTG
 GAACCCCAATCGAGAGCTGAGTGAAGACTGCCTTTATCTTAATGTGTGGACACCATACCCAGGCCTACT
 TCTCCACACCTGTCCTCATCTGGATCTATGGGGTGGTTTCTACAGTGGAGCATCCTCCTTGGACGTGT
 ATGACGGCCGTTTCTGGCCAGGTTGAGGGAACCGTGTGGTATCTATGAACTACCGAGTGGGAACCTT
 TGGCTTCTTGGCTCTACCAGGAAGCAGAGAAGCCCTGGCAATGTAGGCCTGCTGGATCAACGGCTTGCC
 TTGCAATGGGTACAAGAAAATATCGCAGCCTTTGGGGGAGACCCAATGTCAGTGACTCTGTTTGGGGAGA
 GTGCAGGTGCAGCCTCAGTGGGCATGCACATTCTGTCCCTGCCAGCAGGAGCCTCTCCACAGGGCTGT
 CCTGCAGAGTGGCACACCCAATGGGCCCTGGGCCACTGTGAGTGCGGGAGAGGCCAGGCGCAGGGCCACA
 CTGCTGGCCCGCCTTGTGGGCTGTCCCCAGGTGGCGCTGGTGGCAATGACACCGAGCTGATATCCTGCT
 TGAGGACAAGGCCCGCTCAGGACCTGGTGGACCAGAGTGGCATGTGCTGCCTCAAGAAAGTATCTTCCG
 GTTTTCTTCTGCTGCTGGTGGACGGGATTTCTCAGTGACACGCCGGACGCTCTCATCAATACTGGA
 GATTTTCAAGACCTGCAGGTGCTGGTGGTGTGGTGAAGGACGAGGGCTCCTACTTCTGGTTTACGGGG
 TCCCAGGCTTTCAGCAAAGACAATGAATCTCTCATCAGCCGGGCCAGTTTCTGGCTGGGTGCGGATCGG
 TGTACCCCAAGCGAGTGACCTGGCGGCCGAGGCTGTGGTCTGCATTATACAGACTGGCTGCACCCCTGAG
 GACCCCTGCCACCTGAGAGATGCCATGAGTGCAGTGGTGGTGGCAGCCACAACGTTGTGCCTGTGGCCC
 AGCTGGCTGGCGACTGGCTGCCAAGGGGCTCGGGTCTATGCCTACATCTTTGAACACCGTGCCTCCAC
 ATTGACTTGGCCCTCTGGATGGGGTGGCCCATGGCTATGAAATCGAGTTCATCTTTGGCTCCCCCTG
 GATCCCTCACTGAACTACACCGTGGAGGAGAGAATCTTTGCTCAGCGACTTATGCAATACTGGACCAATT
 TTGCCCGCACAGGGGACCCCAATGACCCTCGAGACTCTAAGTCTCCACGGTGGCCACCGTACACCACTGC
 CGCGCAGCAATACGTGAGCCTGAACCTGAAGCCTTTGGAGGTGCGCGGGGACTGCGCGCCAGACCTGC
 GCCTTCTGGAATCGTTTTCTCCCAAATGCTCAGCGCCACAGACACGCTGGACGAGGCGGAGCGCCAGT
 GGAAGGCCGAGTTCACCGCTGGAGCTCTACATGGTGCCTGGAAGAACCAGTTCGACCACTATAGCAA
 GCAGGAACGCTGCTCAGACCTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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MRPPWYPLHTPSLASPLLFLLLSLLGGGARAEGREDPQLLVVRVGGQLRGI RLKAPGGPVSAFLGIPFAE
 PPVGSRRFMPPEPKRPWSGILDATTFQNVCYQYVDLTPGFEGTEMWNP NRELSEDCLYLNWTPYPRPT
 SPTPVL IWIYGGFYSGASSLDVYDGRFLAQVEGT VLVSMNYRVGTFGFLALPGSREAPGNVGLLDQRLA
 LQWVQENIAAFGGDPMSVTLFGESAGAASVGMHILSLPSRSLFHRAVLQSGTPNGPWATVSAGEARRRAT
 LLARLVGCPPGGAGGNDTELISCLRTRPAQDLVDHEWHVLPQESIFRFSFVPVVDGDFLSDTPDALINTG
 DFQDLQVLVGVVKDEGSYFLVYGVPGFSKDNE SLISRAQFLAGVRIGVPAQSDLAAEAVVLHYTDWLHPE
 DPAHLRDAMSAVVDHNVCPVAQLAGRLAAQGARVYAYIFEHRASLTWPLWMGVPHGYEIEFIFGLPL
 DPSSLNYTVEERIFAQRLMQYWNFARTGDPNDPRD SKSPRWPPYTAAQQYVSLNLKPLEVRRGLRAQTC
 AFWNRFLPKLLSATDTLDEAERQWKA EFHRWSSYMVHWNQFDHYSKQERCSDL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

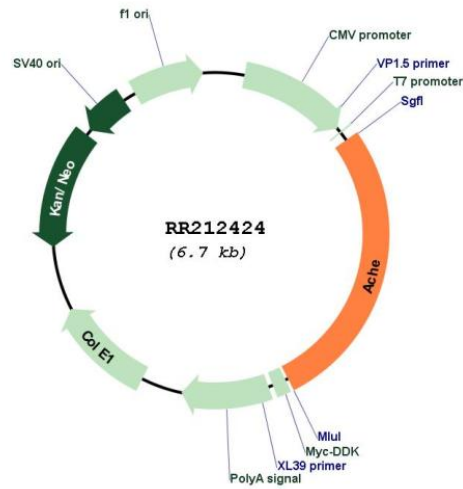
Cloning Scheme:

Cloning sites used for ORF Shutting:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_172009

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:	<ol style="list-style-type: none">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_172009.1 , NP_742006.1
RefSeq Size:	2066 bp
RefSeq ORF:	1845 bp
Locus ID:	83817
UniProt ID:	P37136
Cytogenetics:	12q12
MW:	68.2 kDa
Gene Summary:	catalyzes the hydrolysis of acetylcholine to choline and acetate; plays a role in neuronal development and synapse formation [RGD, Feb 2006]