

## Product datasheet for **MC216784**

### Chrne (NM\_009603) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chrne (NM_009603) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Chrne
Synonyms:	Ac; ACh; AChrepsilon; Acre; nAChRE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >MC216784 representing NM\_009603  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCAGGGGCTCTGCTTGGTGCCTGCTTCTCCTGACACTCTTTGGCAGAAGCCAGGAAAGAATGAAG  
 AGCTTAGCCTGTATCACCATCTCTTCGACAATTATGATCCAGAATGCCGGCCAGTTAGGAGACCTGAGGA  
 CACTGTACCATCACCTCAAGGTCACCCTAACCAACCTCATCTCACTGAACGAGAAAGAAGAACTCTG  
 ACCACCAGTGTCTGGATTGGCATTGACTGGCAGACTATCGGCTCAACTACAGCAAGGACGATTTTGACG  
 GTGTAGGAATCTCCGGGTCCTTCAGAACATGTATGGCTGCCAGAGATTGTTCTAGAAAACAATATTGA  
 TGGGCAGTTTGGAGTGGCTACGACAGCAATGTTCTAGTCTATGAGGGAGGCTATGTGAGCTGGTTGCC  
 CCAGCCATCTACCGCAGCACCTGCGCAGTGGAGGTCACCTATTTCCCTTTGACTGGCAGAACTGCTCTC  
 TCATTTTTCGCTCCAGACCTACAATGCTGAGGAGGTGGAGTTCATCTTTGCCGTGGATGACGACGGCAA  
 TACCATCAACAAGATTGACATTGACACGGCAGCTTTTACCGAGAATGGAGAATGGCCATAGACTACTGC  
 CCAGGCATGATTCCGGCTATGAGGGAGGTTCCACAGAAGGTCCTGGAGAACTGACGTCATCTATACGC  
 TCATCATCCGCCGAAGCCGCTTTTTTACGTCATTAACATCATTGTGCCTTGCGTGCTCATTCTGGCTT  
 GGTGCTGCTCGCTTACTTCTGCCTGCGCAGGCTGGTGGCCAGAAATGCACGGTCTCTATCAACGTCCTG  
 CTAGCCCAGACTGCTTCTTGTCTAATTGCCAGAAAATCCAGAGACTTCTCTGAGCGTGCCACTGC  
 TGGGCAGGTATCTTATATTCGTCATGGTGGTGGCAGCCTCATTGTCATGAATTGCGTCATCGTGCTCAA  
 CGTATCTTTGAGGACGCCAACGACTCATGCTACATCCCCTCGGCTGCGCCAGATTTTATTAGAGCTGCTG  
 CCGCGTCTCCTGGGCTCGAGCCACCCAGAGGATCCCCGAACGCTCACCAGCGAGGCGTGCCTCGT  
 CTGTGGCATTCTGCTCAGAGCGGAGGAGCTCATCTTGA AAAAGCCGCGGAGCGAACTCGTGTGAGGG  
 TCAGAGGCATCGGCACGGAACCTGGACCGAGCCCTTGCCAGAACCTGGGTGCTGCAGCCCAGAAATC  
 CGCTGCTGTGTGGATGCTGTGAACCTTGTGGCTGAGAGCACAAGAGACCAGGAAGCCACTGGAGAGGAAC  
 TGTCCGACTGGGTGCGTATGGGGAAGGCCCTGGACAATGTCTGTTTTGGGCAGCTTTGGTGCTCTTCAG  
 CGTTGGTTCTACTCTCATCTTCTTGGGGTTACTTCAACCAAGTTCCTGATCTCCCTTACCCACCGTGC  
 ATCCAACCA**TGA**

**ACGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Chromatograms:** [https://cdn.origene.com/chromatograms/ja1838\\_a11.zip](https://cdn.origene.com/chromatograms/ja1838_a11.zip)

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_009603

**Insert Size:** 1482 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](mailto: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\\_009603.1](#), [NP\\_033733.1](#)

**RefSeq Size:** 1599 bp

**RefSeq ORF:** 1482 bp

**Locus ID:** 11448

**UniProt ID:** [P20782](#)

**Cytogenetics:** 11 43.14 cM

**Gene Summary:** This gene encodes the epsilon subunit of the muscle-derived nicotinic acetylcholine receptor, a pentameric neurotransmitter receptor and member of the ligand-gated ion channel superfamily. The acetylcholine receptor changes subunit composition shortly after birth when the epsilon subunit replaces the gamma subunit seen in embryonic receptors. In mice, deficiency of this gene can lead to a decline in the number of nicotinic acetylcholine receptors at neuromuscular junctions and causes progressive muscle weakness, atrophy and premature death. Mutations in this gene serve as a pathophysiological model for human congenital myasthenia. Several alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Nov 2012]