

Product datasheet for **MG224539**

Chrne (NM_009603) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrne (NM_009603) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chrne
Synonyms:	Ac; ACh; AChrepsilon; Acre; nAChRE
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG224539 representing NM_009603
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGGGGCTCTGCTTGGTGCCTGCTTCTCCTGACACTCTTTGGCAGAAGCCAGGAAAGAATGAAG
 AGCTTAGCCTGTATCACCATCTCTTCGACAATTATGATCCAGAATGCCGGCCAGTTAGGAGACCTGAGGA
 CACTGTACCATCACCTCAAGGTCACCCTAACCAACCTCATCTCACTGAACGAGAAAGAAGAACTCTG
 ACCACCAGTGTCTGGATTGGCATTGACTGGCACGACTATCGGCTCAACTACAGCAAGGACGATTTTGACG
 GTGTAGGAATCTCCGGGTCCTTCAGAACATGTATGGCTGCCAGAGATTGTTCTAGAAAACAATATTGA
 TGGGCAGTTTGGAGTGGCTACGACAGCAATGTTCTAGTCTATGAGGGAGGCTATGTGAGCTGGTTGCC
 CCAGCCATCTACCGCAGCACCTGCGCAGTGGAGGTCACCTATTTCCCTTTGACTGGCAGAACTGCTCTC
 TCATTTTTCGCTCCAGACCTACAATGCTGAGGAGGTGGAGTTCATCTTTGCCGTGGATGACGACGGCAA
 TACCATCAACAAGATTGACATTGACACGGCAGCTTTTACCGAGAATGGAGAATGGCCATAGACTACTGC
 CCAGGCATGATTCCGGCTATGAGGGAGGTTCCACAGAAGGTCCTGGAGAACTGACGTCATCTATACGC
 TCATCATCCGCCGAAGCCGCTTTTTTACGTCAATTAACATCATTGTGCCTTGCGTGCTCATTCTGGCTT
 GGTGCTGCTCGCTTACTTCTGCCTGCGCAGGCTGGTGGCCAGAAATGCACGGTCTCTATCAACGTCCTG
 CTAGCCCAGACTGCTTCTTGTTTCTAATTGCCAGAAAATCCAGAGACTTCTCTGAGCGTGCCACTGC
 TGGGCAGGTATCTTATATTCGTCATGGTGGTTGCCACGCTCATTGTCATGAATTGCGTCATCGTGCTCAA
 CGTATCTTTGAGGACGCCAACGACTCATGCTACATCCCCTCGGCTGCGCCAGATTTTATTAGAGCTGCTG
 CCGCGTCTCCTGGGCTCGAGCCCACCCAGAGGATCCCCGAACCTGCCTACCAGCGAGGCGCTGCCCTCGT
 CTGTGGCATTCTGCTCAGAGCGGAGGAGCTCATCTTGA AAAAGCCGCGGAGCGAACTCGTGTGAGGG
 TCAGAGGCATCGGCACGGAACCTGGACCGCAGCCCTCTGCCAGAACCTGGGTGCTGCAGCCCCAGAAATC
 CGCTGCTGTGTGGATGCTGTGAACCTTTGTGGCTGAGAGCACAAGAGACCAGGAAGCCACTGGAGAGGAAC
 TGTCCGACTGGGTGCGTATGGGGAAGGCCCTGGACAATGTCTGTTTTGGGCAGCTTTGGTGCTCTTCAG
 CGTTGGTTCTACTCTCATCTTCTTGGGGTTACTTCAACCAAGTTCCTGATCTCCCTTACCACCGTGC
 ATCCAACCA

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG224539 representing NM_009603
 Red=Cloning site Green=Tags(s)

MAGALLGALLLLTLFGRSQGKNEELSLYHHLFDNYDPECRPVRRPEDVTITLKVLTNLISLNEKEETL
 TTSVWIGIDWHDYRLNYSKDDFAGVGLRVPSEHVWLPEIVLENNIDGQFVAYDSNVLVYEGGYVSWLP
 PAIYRSTCAVEVYFPFDWQNCSLIFRSQTYNAEEVEFIFAVDDDGNTINKIDIDTAAFTENGAWAIDYC
 PGMIRRYEGGSTEGPGETDVIYTLIIRRKPLFYVINIIVPCVLISGLVLLAYFLPAQAGGQKCTVSINVL
 LAQTVFLFLIAQKIPETSLSVPLLGRYLIFVMVATLIVMNCVIVLNVSLRPTTHATSPRLRQILLELL
 PRLLGSSPPPEDPRTASPARASSVGIILLRAEELILKKPRSELVFEGQRHRHGTWTAALCQNLGAAAPEI
 RCCVDVNFVAESTRDQEATGEELSDWVRMGKALDNVCFWAALVLFVSGSTLIFLGGYFNQVDPDLPYPPC
 IQP

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:

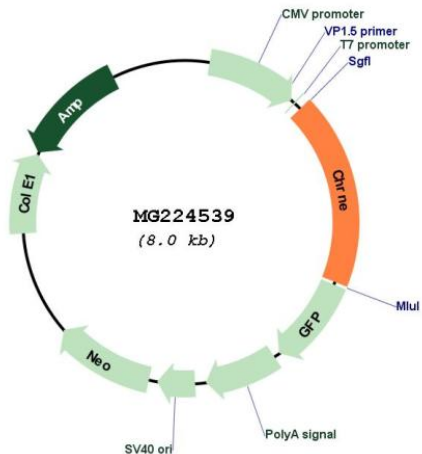


EcoRI BamHI KpnI RBS Kozac Consensus SgfI AscI
 CTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGSAGATCTGCCGCCGATCGCCGGCGCCAGATCT

 HindIII NheI RsrII MluI NotI XhoI GFP Tag
 CAAGCTTAAGCTAGCTAGCGGACCG ACG CGT ACG CGG CCG CTC GAG ATG GAG AGC GAC --- ---
 T R T R P L E M E S D - - -

 PmeI FseI
 --- GAA GAA AGA GTT TAA ACGGCCGGCCGGGAGCT
 - - E E R V Stop

Plasmid Map:



ACCN: NM_009603

ORF Size: 1479 bp

OTI Disclaimer:	<p>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.</p> <p>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</p>
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_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:	<p>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]</p>