

Product datasheet for **MR224539**

Chrne (NM_009603) Mouse Tagged ORF Clone

Product data:

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



[View online »](#)

ORF Nucleotide Sequence:

>MR224539 representing NM_009603
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCAGGGGCTCTGCTTGGTGCCTGCTTCTCCTGACACTCTTTGGCAGAAGCCAGGAAAGAATGAAG
 AGCTTAGCCTGTATCACCATCTCTTCGACAATTATGATCCAGAATGCCGGCCAGTTAGGAGACCTGAGGA
 CACTGTACCATCACCTCAAGGTCACCCTAACCAACCTCATCTCACTGAACGAGAAAGAAGAACTCTG
 ACCACCAGTGTCTGGATTGGCATTGACTGGCAGACTATCGGCTCAACTACAGCAAGGACGATTTTGACG
 GTGTAGGAATCTCCGGGTCCTTCAGAACATGTATGGCTGCCAGAGATTGTTCTAGAAAACAATATTGA
 TGGGCAGTTTGGAGTGGCTACGACAGCAATGTTCTAGTCTATGAGGGAGGCTATGTGAGCTGGTTGCC
 CCAGCCATCTACCGCAGCACCTGCGCAGTGGAGGTCACCTATTTCCCTTTGACTGGCAGAACTGCTCTC
 TCATTTTTCGCTCCAGACCTACAATGCTGAGGAGGTGGAGTTCATCTTTGCCGTGGATGACGACGGCAA
 TACCATCAACAAGATTGACATTGACACGGCAGCTTTTACCGAGAATGGAGAATGGCCATAGACTACTGC
 CCAGGCATGATTCCGGCTATGAGGGAGGTTCCACAGAAGGTCCTGGAGAACTGACGTCATCTATACGC
 TCATCATCCGCCGAAGCCGCTTTTTTACGTCAATTAACATCATTGTGCCTTGCGTCTCATTCTGGCTT
 GGTGCTGCTCGCTTACTTCTGCCTGCGCAGGCTGGTGGCCAGAAATGCACGGTCTCTATCAACGTCCTG
 CTAGCCCAGACTGTCTTCTGTTTCTAATTGCCAGAAAATCCAGAGACTTCTCTGAGCGTGCCACTGC
 TGGGCAGGTATCTTATATTCGTCATGGTGGTGGCCAGCTCATTGTCATGAATTGCGTCATCGTGCTCAA
 CGTATCTTTGAGGACGCCAACGACTCATGCTACATCCCCTCGGCTGCGCCAGATTTTATTAGAGCTGCTG
 CCGCGTCTCCTGGGCTCGAGCCCACCCAGAGGATCCCCGAACCTGCCTACCAGCGAGGCGTCCCTCGT
 CTGTGGCATTCTGCTCAGAGCGGAGGAGCTCATCTTGA AAAAGCCGCGGAGCGAACTCGTGTGGAGGG
 TCAGAGGCATCGGCACGGAACCTGGACCGCAGCCCTCTGCCAGAACCTGGGTGCTGCAGCCCAGAAATC
 CGCTGCTGTGTGGATGCTGTGAACCTTGTGGCTGAGAGCACAAGAGACCAGGAAGCCACTGGAGAGGAAC
 TGTCCGACTGGGTGCGTATGGGGAAGGCCCTGGACAATGTCTGTTTTGGGCAGCTTTGGTCTCTTCAG
 CGTTGGTCTACTCTCATCTTCTTGGGGTTACTTCAACCAAGTTCTGATCTCCCTTACCACCGTGC
 ATCCAACCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224539 representing NM_009603
 Red=Cloning site Green=Tags(s)

MAGALLGALLLLTLFGRSQGKNEELSLYHHLFDNYDPECRPVRRPEDVTITLKVLTNLISLNEKEETL
 TTSVWIGIDWHDYRLNYSKDDFAGVGIILRVPSSEHVLPEIVLENNIDGQFVAYDSNVLYEGGYVSWLP
 PAIYRSTCAVEVYFDFWQNCSLIFRSQTYNAEEVEFIFAVDDDGNTINKIDIDTAAFTENGAWAIDYC
 PGMIRRYEGGSTEGPGETDVIYTLIIRRKPLFYVINIIVPCVLISGLVLLAYFLPAQAGGQKCTVSINVL
 LAQTVFLFLIAQKIPETSLVPLLGRYLIFVMVATLIVMNCVIVLNVSLRPTTHATSPRLRQILLELL
 PRLLGSSPPPEDPRTASPARASSVGILLRAEELILKKPRSELVFEGQRHRHGTWTAALCQNLGAAPEI
 RCCVDVNFVAESTRDQEATGEELSDWVRMGKALDNVCFWAALVLFVSGSTLIFLGGYFNQVPDLPYPPC
 IQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1479_e02.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_009603

ORF Size: 1479 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.

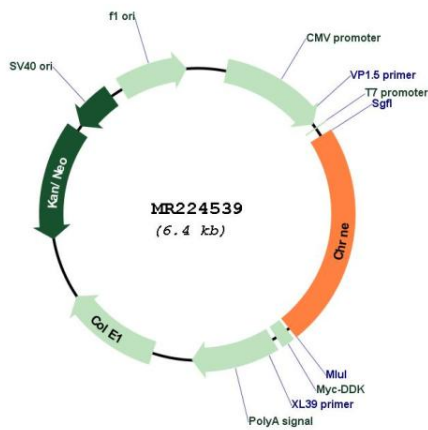
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_009603.1, NP_033733.1](#)
RefSeq Size: 1599 bp
RefSeq ORF: 1482 bp
Locus ID: 11448
UniProt ID: [P20782](#)
Cytogenetics: 11 43.14 cM
MW: 55.4 kDa

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]

Product images:



Circular map for MR224539