

Product datasheet for **RR210172**

Chrne (NM_017194) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrne (NM_017194) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrne
Synonyms:	nAChR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR210172 representing NM_017194
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACAATGGCTCTGCTTGGGACCTGCTTCTCCTGGCACTCTTTGGCAGAAGCCAAGGCAAGAATGAAG
 AGCTGAGCCTGTATCACCATCTCTTCGACAATTATGACCCAGAATGCCGGCCAGTTAGGAGACCTGAGGA
 CACTGTACCATCACCTCAAGGTCACCCTAACCAACCTCATCTCACTGAATGAGAAAGAAGAGACTCTG
 ACCACCAGTGTCTGGATTGGAATTGAATGGCAAGACTATCGGCTCAACTCAGCAAGGACGATTTTGCAG
 GCGTAGAAATCCTGCGGGTCCCTCCGAACATGTATGGCTGCCAGAGATTGTTCTGGAAAACAATATTGA
 TGGGCAGTTTGGAGTGGCTACGACTGCAATGTTCTGGTCTATGAGGGAGGCTCTGTGAGCTGGCTGCC
 CCAGCTATCTACCGCAGCAGTGCAGTGGAGGTCACCTATTTCCCTTTGACTGGCAGAACTGCTCTC
 TCATTTTTCGTTCCAGACCTACAATGCTGAAGAGGTGGAGTTAATCTTTGCAGTGGATGACGATGGCAA
 TGCCATCAACAAAATTGACATCGACACCGCAGCTTTTACCGAGAATGGAGAATGGGCCATTGACTACTGC
 CCAGGCATGATTGCCATTATGAGGGAGGCTCCACAGAAGACCCTGGAGAACTGACGTCATCTACACGC
 TCATCATCCGTCGAAAGCCGCTTTTTACGTCAATTAACATCATTGTGCCTTGTGTGCTCATTCTGGCTT
 GGTGCTACTCGTTACTTCTACCTGCGCAGGCTGGTGGCCAGAAATGCACGGTCTCTATCAACGTCCTG
 CTAGCCCAGACTGCTTCTTGTCTTAATTGCCAGAAAATCCAGAGACTTCTCTGAGCGTGCCGCTGC
 TGGGCAGGTATCTATTTTTGTGATGGTGGTGGCACGCTCATTGTATGAATTGCGTATCGTGCTCAA
 CGTATCTTTGCGAACCCAACGACTCACGCCACATCCCCTCGGCTGCGCCAGATTTATTAGAGCTACTG
 CCGCGCTCCTCGGCTTGAGCCACCCAGAGGATCCCGGAGCTGCCTACCAGCGAGGCGTGCCTCAT
 CTGTGGCATTCTGCTTAGAGCGGAGGAGCTCATCTTGA AAAAGCCGCGGAGCGAACTCGTGTGGGG
 ACAGAGGCATCGCATGGAACCTGGACCGCAGCCGCTCTGCCAGAACCCTGGGTGCTGCAGCCCTGAA
 GTCGCTGCTGTGGATGCTGTGAACCTTGTGGCTGAGAGCACAGGGACCAGGAAGCCACTGGAGAGG
 AACTGTCTGACTGGTGCATGGGAAGGCCCTCGACAATGTCTGTTTTGGGCAGCGTTGGTCTCTT
 CAGCGTCGGTTCTACGCTCATCTTCTTGGAGGTTACTTCAACCAAGTCTGATCTCCCCTACCCACCG
 TGCATCCAACCA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210172 representing NM_017194
 Red=Cloning site Green=Tags(s)

MTMALLGTL LLLALFGRSQGKNEELSLYHHLFDNYDPECRPVRRPEDTVTITLKVTLTNLISLNEKEETL
 TTSVWIGIEWQDYRLNFSKDDFAGVEILRVPSEHVWLP EIVLENNIDGQFGVAYDCNVLVYEGGSVSWLP
 PAIYRSTCAVEVTYFPFDWQNC SLIFRSQTYNAEEVELIFAVDDDGNAINKIDIDTAAFTENGEWAIDYC
 PGMIRHYEGGSTEDPGETDVIYTLIIRRKPLFYVINIIVPCV L ISGLVLLAYFLPAQAGGQKCTVSINVL
 LAQTVFLFLIAQKIPETSL SVPLLGRYLIFVMVVATLIVMNCVIVLNVSLRPTTHATSPRLRQILLELL
 PRLLGLSPPPEDPGAASPARASSV GILLRAEELILKKPRSELVFEGQRHRHGTWTAALCQNLGAAAPE
 VRCCVDVNFVAESTRDQEATGEELSDWVRMGKALDNVCFWAALV LFSVGSTLIFLGGYFNQV PDLPYPP
 CIQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

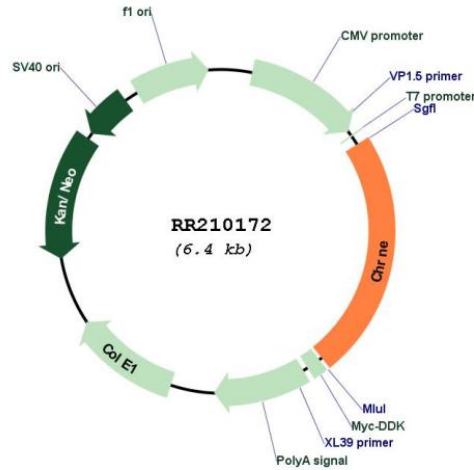
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_017194

ORF Size: 1482 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_017194.1](#), [NP_058890.1](#)

RefSeq Size: 1624 bp

RefSeq ORF: 1485 bp

Locus ID: 29422

UniProt ID: [P09660](#)

Cytogenetics: 10q24

MW: 54.9 kDa

Gene Summary: subunit of the acetylcholine receptor AChR epsilon; may act at the muscle endplate [RGD, Feb 2006]