

## Product datasheet for **MR224522**

### Chrna7 (NM\_007390) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chrna7 (NM_007390) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrna7
Synonyms:	Acra7; alpha7; nAChR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR224522 representing NM\_007390  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGTGCGCGCCGGCGGGAGGCATCTGGCTGGCTCTGGCCGCGCGCTGCTGCACGTGTCCTGCAAGGCG  
 AGTTCCAGAGGAGGCTGTACAAGGAGCTGGTCAAGAACTACAACCGCTGGAGAGCCGGTGGCCAACGA  
 CTCGCAGCCGCTCACCGTACTTCTCCCTGAGCCTCCTGCAGATCATGGATGTGGATGAGAAGAACC  
 GTTTAAACCACCAACATTTGGCTACAAATGTCTTGGACAGATCACTATTTGCAGTGAACATGTCTGAGT  
 ACCCCGGAGTGAAAAATGTTCTGTTTTCCAGATGGCCAGATTTGGAACCAGACATTTCTCTCTATAACAG  
 TGCAGATGAACGCTTTGATGCCACATCCACACCAACGCTTGGTGAATGCATCTGGGCATTGCCAGTAT  
 CTCCTCCAGGCATATCAAGAGCTCCTGCTACATCGATGACGCTGGTCCCTTTTGATGTGCAGCAGT  
 GCAAACGAAGTTTGGGCTCTGGTCTATGGAGGGTGGTCTTGGACCTGCAGATGCAAGAGGCAGATAT  
 CAGCAGCTATATCCCAATGGAGAATGGGATCTCATGGGAATCCCTGGCAAAGGAATGAGAAGTCTAT  
 GAATGCTGCAAAGAGCCATACCCAGATGTACCTACACAGTAACCATGCGCCGTAGGACACTCTACTATG  
 GCCTCAACCTGCTCATTCTTGTGTGCTCATTTAGCCCTGGCTTTGCTGGTATTCTTGTGCTGCAGCA  
 CTCTGGAGAGAAAATCTCTTTGGAATAACTGTCTTACTTTCTCTGACTGTCTTCATGCTGCTTGTGGCT  
 GAGATCATGCCAGCAACATCTGATTCGTGCCCTTGATAGCACAGTACTTCGCCAGCACCATGATCATCG  
 TGGGCCTCTCAGTGGTCGTGACAGTGATTTGTGCTGCGATATCACCACCATGACCTGATGGTGGCAAAAT  
 GCCTAAGTGGACCAGGATCATTCTTCTGAATTGGTGTGCATGGTTTCTGCGCATGAAGAGGCCGGGAGAG  
 GACAAGGTGCGGCCGGCTTGTGACGACAAGCCTCGGCGCTGCAGCCTGGCCAGTGTGGAGCTGAGCGCAG  
 GTGCGGGGCCACCCACCAAGCAATGGCAACCTGCTACATTTGGCTTCCGAGGCCTGGAGGCATGCATG  
 TGCCCCAACTCCAGACTCTGGGGTCGTGTGGTCTGTTTGGCCTGCTCCCAACACATGATGAGCACCTC  
 ATGCATGTTACACACCCCTCTGATGGGGACCCGACCTGGCCAAGATCCTGGAGGAGTCCGCTACATCG  
 CCAACCGCTTCCGCTGCCAGGATGAGAGTGAGGTGATCTGCAGTGAAGGTTTTCGCGCCTGTGTGGT  
 GGACCGCTTGTGCTCATGGCCTTTTCGGTTTTTACCATCATCTGCACCATCGGCATCCTCATGTGACCC  
 CCAAACCTTGTGGAGGCTGTGTCCAAAGACTTTGCT

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR224522 representing NM\_007390  
 Red=Cloning site Green=Tags(s)

MCGRRGGIWLALAAALLHVSLQGEFQRRLYKELVKYNYPLERPVANDSQPLTVYFSLSLQIMDVDEKNQ  
 VLTNTNIWLQMSWDHYLQWNMSEYPGVKNVRFDPGQIWKPDILLYNSADERFDATFHTNVLVNASGHCQY  
 LPPGIFKSSCYIDVRWFPFDVQCKLKFGSWSYGGWLDLQMQEADISSYIPNGEWDLMGIPGKRNEKPY  
 ECCKEYPYDVITYVTMRRRLYYGLNLLIPCVLISALALLVFLLPADSGEKISLGITVLLSLTVFMLLVA  
 EIMPATSDSVPLIAQYFASTMIIVGLSVVVTIVLRYHHHDPDGGKMPKWTRIIILLNWCWFLRMKRPGE  
 DKVRPACQHKPRRCSLASVELSAGAPPTSNGNLLYIGFRGLEGMHCAPTDSGVVCGRLACSPHDEHL  
 MHGTHPSDGDPLAKILEEVRYIANRFRQDESEVICSEWKFAACVVDRLCLMAFSVFTIICTIGILMSA  
 PNFVEAVSKDFA

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9016\\_d04.zip](https://cdn.origene.com/chromatograms/mm9016_d04.zip)

**Restriction Sites:**

Sgfl-Mlul

**Cloning Scheme:**


**ACCN:** NM\_007390

**ORF Size:** 1506 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\\_007390.3](#), [NP\\_031416.3](#)

**RefSeq Size:** 2091 bp

**RefSeq ORF:** 1509 bp

**Locus ID:** 11441

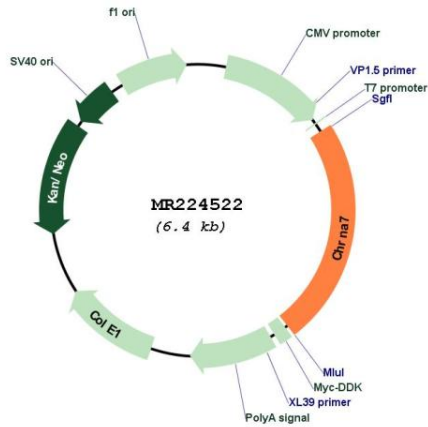
**UniProt ID:** [P49582](#)

**Cytogenetics:** 7 34.47 cM

MW: 57.1 kDa

Gene Summary: After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane. The channel is blocked by alpha-bungarotoxin.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224522