

## Product datasheet for **MG224522**

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

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chrna7 (NM_007390) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chrna7
Synonyms:	Acra7; alpha7; nAChR
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG224522 representing NM\_007390  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTGCGCGCCGGCGGGAGGCATCTGGCTGGCTCTGGCCGCGCGCTGCTGCACGTGTCCTGCAAGGCG  
 AGTTCAGAGGAGGCTGTACAAGGAGCTGGTCAAGAACTACAACCGCTGGAGAGCCGGTGGCCAACGA  
 CTCGCAGCCGCTCACCGTACTTCTCCCTGAGCCTCCTGCAGATCATGGATGTGGATGAGAAGAACC  
 GTTTAAACCACCAACATTTGGCTACAAATGTCTTGGACAGATCACTATTTGCAGTGAACATGTCTGAGT  
 ACCCCGGAGTGAAAAATGTTCTGTTTTCCAGATGGCCAGATTTGGAACCAGACATTTCTCCTATAACAG  
 TGCAGATGAACGCTTTGATGCCACATCCACACCAACGCTTGGTGAATGCATCTGGGCATTGCCAGTAT  
 CTCCTCCAGGCATATCAAGAGCTCCTGCTACATCGATGACGCTGGTCCCTTTTGTGTGCAGCAGT  
 GCAAACGAAGTTTGGGCTCTGGTCTATGGAGGGTGGTCTTGGACCTGCAGATGCAAGAGGCAGATAT  
 CAGCAGCTATATCCCAATGGAGAATGGGATCTCATGGGAATCCCTGGCAAAGGAATGAGAAGTTCTAT  
 GAATGCTGCAAAGAGCCATACCCAGATGTACCTACACAGTAACCATGCGCCGTAGGACACTCTACTATG  
 GCCTCAACCTGCTCATTCTTGTGTGCTCATTTAGCCCTGGCTTTGCTGGTATTCTTGTGCTGCAG  
 CTCTGGAGAGAAAATCTCTTTGGAATAACTGTCTTACTTTCTGACTGTCTTCATGCTGCTTGTGGCT  
 GAGATCATGCCAGCAACATCTGATTCGGTCCCTTGTAGCACAGTACTTCGCCAGCACCATGATCATCG  
 TGGGCCTCTCAGTGGTCGTGACAGTGATTTGTGCTGCGATATCACCACCATGACCTGATGGTGGCAAAAT  
 GCCTAAGTGGACCAGGATCATTCTTCTGAATTGGTGTGCATGGTTTCTGCGCATGAAGAGGCCGGGAGAG  
 GACAAGGTGCGGCCGGCTTGTGACACAAGCCTCGGCGCTGCAGCCTGGCCAGTGTGGAGCTGAGCGCAG  
 GTGCGGGGCCACCCACCAAGCAATGGCAACCTGCTACATTGGCTTCCGAGGCCTGGAGGGCATGCACCT  
 TGCCCCAACTCCAGACTCTGGGGTCGTGTGGTCTGTTGGCCTGCTCCCAACACATGATGAGCACCTC  
 ATGCATGTTACACACCCCTCTGATGGGGACCCGACCTGGCCAAGATCCTGGAGGAGTCCGCTACATCG  
 CCAACCGCTTCCGCTGCCAGGATGAGAGTGAGGTGATCTGCAGTGAAGTTTTCGCGCCTGTGTGGT  
 GGACCGCTTGTGCTCATGGCCTTTTCGGTTTTTACCATCATCTGCACCATCGGCATCCTCATGTACGCC  
 CCAAACCTTGTGGAGGCTGTGTCCAAAGACTTTGCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG224522 representing NM\_007390  
 Red=Cloning site Green=Tags(s)

MCGRRGGIWLALAAALLHVSLQGEFQRRLYKELVKYNYNPLERPVANDSQPLTVYFSLSLLQIMDVDEKNQ  
 VLTNNIWLQMSWDHYLQWNMSEYPGVKNVRFDPGQIWKPDILLYNSADERFDATFHNTNVLVNASGHCQY  
 LPPGIFKSSCYIDVRWFPFDVQCKLKFGSWSYGGWLDLQMQEADISSYIPNGEWDLMGIPGKRNEKFY  
 ECCKEYPDVITYVTMRRRTLYYGLNLLIPCVLISALALLVFLLPADSGEKISLGITVLLSLTVFMILLVA  
 EIMPATSDSVPLIAQYFASTMIIVGLSVVTVIVLRYHHHDPDGGKMPKWTRIIILLNCAWFLRMKRPGE  
 DKVRPACQHKPRRCSLASVELSAGAGPPTSNGNLLYIGFRGLEGMHCAPTDPDSGVVCGRLACSPHDEHL  
 MHGTHPSDGDPLAKILEEVRYIANRFRQCDESEVICSEWKFAACVVDRCLMAFSVFTIICTIGILMSA  
 PNFVEAVSKDFA

**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI

**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

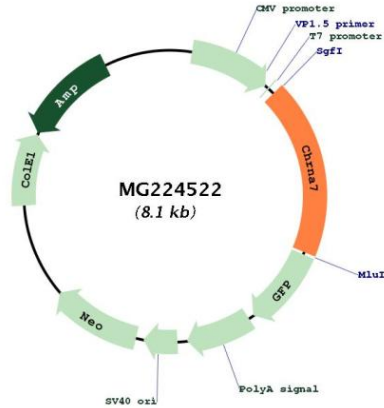
**UniProt ID:** [P49582](#)

**Cytogenetics:** 7 34.47 cM

**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 MG224522