

Product datasheet for **MG207940**

Chrna6 (NM_021369) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrna6 (NM_021369) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chrna6
Synonyms:	Acra6; Nica6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207940 representing NM_021369
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGAACAGCCGGGACCAGGAAACCTGCACTCCGGTTTATGTCTGTGGCTATGTGGATTCTGGCTC
 TCTTTAAAGGCAGTACAGGCTGTGAATCTGAAGAGCAGCTCTCCACAGGCTGTTTGCTCACTACAACCG
 CTTTCATCCGGCCGGTGGAGAATGTCTCCGATCCCGTCACGGTGCATTTTGAATTGCAATCACGCAACTG
 GCCAATGTGGATGAAGTCAACCAGATTATGGAGACCAATCTGTGGCTGCGTCACATCTGGAAGGACTACA
 GATTGCGTTGGGATCCAACGGAGTATGATGGCATCGAGACACTTCGAGTCCAGCAGACAACATCTGGAA
 GCCTGACATCGTCTGTATAACAATGCTGTGCGGACTTCAGGTCGAAGGCAAGACCAAAGCTCTTCTC
 AAGTATGACGGTGTGATAACCTGGACCCACCAGCCATCTTAAGAGCTCCTGCCAATGGACATCACCT
 TCTCCCGTTTGACCATCAAACTGCTCCCTGAAGTTTGGTTCCTGGACTTATGACAAGGCAGAAATCGA
 CCTTCTCATCATTGGCTCTAAAGTAGACATGAACGACTTTGGGAAAACAGTGAATGGGAAATTGTCGAC
 GCCTCTGGCTATAAGCATGACATCAAGTACAACCTGCTGTGAAGAGATTTACACGGACATAACCTACTCCT
 TCTACATCAGGAGGTTGCCATGTTTTACACCATCAACCTCATATCCCCTGCCTCTTCATTTCTCTCTCT
 CACGGTGTGTTTTTACCTCCCTCCGACTGTGGCGAGAAAGTGACTCTTTCATCTCCGTTCTGCTT
 TCTCTCACTGTCTTTTGTGGTGATTACAGAGACCATCCCATCCACATCTCTCGTGATCCCCTGGTGG
 GTGAGTATCTACTGTTACCATGATCTTTGTACGCTGTCCATTGTGGTGACCGTGTTCGTGCTGAACAT
 AACTACAGGACCCAGCAACGCATACCATGCCAAGTGGGTGAAGACCATCTTCCTTACGGCCTCCCC
 TCGATTCTGATGATGAGGAAACCTCTGGACAAGACAAGGAGGCAGGAGGTGTTAAGGACCCAAAAGCC
 ATACCAAGAGGCCTGCCAAGGTCAAATTTACTCATCGAGGAGAATCCAACTTCTAAAGGAATGCCACCA
 CTGCCAAAAATCAAGTGACATAGCACCTGGAAAGAGAAGATCAAGCCAGCAGCCTGCACGGTGGGTGGCA
 GAGAATTCAGAGCACTCGTCCGATGTTGAAGATGTCATCGAGAGTGTCAATTCATAGCAGAAAACATGA
 AGAGCCCAATGAAACAAACGAGGTAGAAGACGACTGGAATACATGGCTATGGTGGTGACAGAGTCTT
 CCTTTGGGTATTATAATTGTCTGTGTGTTGGAAGTGTGGGGCTATTTCTGCAGCCACTGCTTGGGAAC
 ACAGGAAAGTCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207940 representing NM_021369
 Red=Cloning site Green=Tags(s)

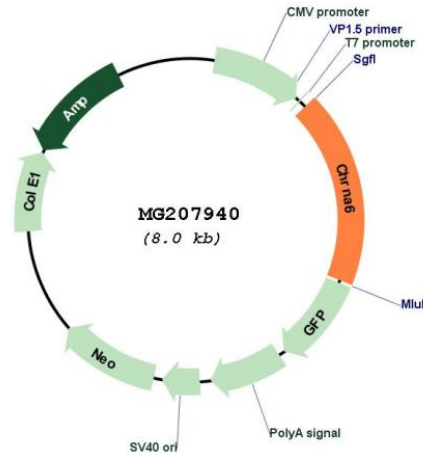
MLNSRDQGNLHSGCLWLCGFLALFKGSTGCESEEQLFHRLF AHYNRFRIRPVENVSDPVTVHFELAITQL
 ANVDEVNQIMETNLWLRHIWKDYRLRWDPTDYDGIETLRVPADNIWKPDIVLYNNAVGFQVEGKTKALL
 KYDGVITWTPPAIFKSSCPMDITFFPFDHQNC SLKFGSWTYDKAEIDLLIIGSKVDMNDFWENSEWEIVD
 ASGYKHDIKYNCCEEIYTDITYSFYIRRLPMFYINLIIPCLFISFLT VLVFYLPSPDCGEKVTLCSVLL
 SLTVFLLVITETIPSTSLVIPLVGEYLLFTMIFVTL SIVVTVFVLNIHYRTPATHMPKWVKTIFLQAFP
 SILMMRKLPLDKTEAGGVKDPKSHTKRPAKVK FTHRGESKLLKECHHCQKSSDIAPGKRRSSQPARWVA
 ENSEHSSDVEDVIESVQFIAENMKSHNETNEVEDD WKYMAVVDRVFLWVFIIVCVFGTVGLFLQPLLGN
 TGKS

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-Mlul

Plasmid Map:



ACCN: NM_021369

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_021369.2](#), [NP_067344.2](#)

RefSeq Size: 2921 bp

RefSeq ORF: 1485 bp

Locus ID: 11440

UniProt ID: [Q9R0W9](#)

Cytogenetics: 8 A2

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.[UniProtKB/Swiss-Prot Function]