

Product datasheet for **RG216321**

CHRNA1 (NM_000079) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA1 (NM_000079) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHRNA1
Synonyms:	ACHRA; ACHRD; CHRNA; CMS1A; CMS1B; CMS2A; FCCMS; SCCMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG216321 representing NM_000079
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCCTGGCCTCTCCTCTGCTCTTTAGCCTTTGCTCAGCTGGCCTCGTCCTGGGCTCCGAACATG
 AGACCCGTCTGGTGGCAAAGCTATTTAAAGACTACAGCAGCGTGGTGCGGCCAGTGAAGACCACCGCCA
 GGTCTGGAGGTACCGTGGCCTGCAGCTGATACAGCTCATCAATGTGGATGAAGTAAATCAGATCGTG
 ACAACCAATGTGCGTCTGAAACAGCAATGGGTGGATTACAACCTAAAATGGAATCCAGATGACTATGGCG
 GTGTGAAAAAAATTCACATTCCTTCAGAAAAGATCTGGCGCCAGACCTTGTCTCTATAACAATGCAGA
 TGGTGACTTTGCTATTGTCAAGTTCACCAAAGTCTCCTGCAGTACACTGGCCACATCACGTGGACACCT
 CCAGCCATCTTTAAAAGCTACTGTGAGATCATCGTCACCCACTTCCCTTTGATGAACAGAACTGCAGCA
 TGAAGCTGGGCACCTGGACCTACGACGGCTCTGTCGTGGCCATCAACCCGAAAGCGACCAGCCAGACCT
 GAGCAACTTCATGGAGAGCGGGGAGTGGGTGATCAAGGAGTCCCGGGGCTGGAAGCACTCCGTGACCTAT
 TCCTGCTGCCCCGACACCCCTACCTGGACATCACTACCACTTCGTATGCAGCGCCTGCCCTCTACT
 TCATCGTCAACGTCATATCCCCTGCCTGCTCTTCTCCTTCTTAAGTGGCCTGGTATTCTACCTGCCAC
 AGACTCAGGGGAGAAGATGACTCTGAGCATCTCTGTCTTACTGTCTTTGACTGTGTTCTCTTGGTCATC
 GTGGAGCTGATCCCCTCCAGTCCAGTGTGTGCCCTTGATTGGAAAATACATGCTGTTCCACCATGGTGT
 TCGTCATTGCCTCCATCATCACTGTGTCATCAACACACACCACCGCTCACCCAGCACCCATGT
 CATGCCAACTGGGTGCGGAAGGTTTTATCGACACTATCCCAAATATCATGTTTTTCTCCAAATGAAA
 AGACCATCCAGAGAAAAGCAAGACAAAAGATTTTTACAGAAGACATTGATATCTCTGACATTTCTGGAA
 AGCCAGGGCCTCCACCCATGGGCTTCCACTCTCCCTGATCAAACACCCCGAGGTGAAAAGTGCCATCGA
 GGGCATCAAGTACATCGCAGAGACCATGAAGTCAGACCAGGAGTCTAACAAATGCGGCGGCAGAGTGGAA
 TACGTTGCAATGGTGTGAGACCACATACTCCTCGGAGTCTTCATGCTTGTGTCATCGGAACCCCTAG
 CCGTGTTCAGGTGCGACTCATTGAATTAATCAGCAAGGA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG216321 representing NM_000079
 Red=Cloning site Green=Tags(s)

MEPWLLLLLFLCSAGLVLGSEHETRLVAKLFDYSSVVRPVEDHRQVVEVTVGLQLIQLINVDEVNQIV
 TTNVRLKQQWVDYNLKWNPDYGGVKKIHIPSEKIWRPDLVLYNNADGDFAIKFKVLLQYTGHTWTP
 PAIFKSYCEIIVTHFPFDEQNCMKLGTWYDGSVVAINPESDQPDLSNFMESGEWVIKESRGWKHSVTY
 SCCPDTPYLDITYHFVMQRLPLFYIVNVIIPCLLFSFLTGLVFYLPDTSGEKMTLSISVLLSLTVFLLVI
 VELIPSTSSAVPLIGKYMLFTMVFIASIIITVIVINTHHRSPSTHVMPNWRKVFIDTIPNIMFFSTMK
 RPSREKQDKKIFTEDIDISDISGKPGPPMGFHSPLIKHPEVKSATIEGIKYIAETMKSDQESNNAAEWK
 YVAMVMDHILLGVFMLVCIIGTLAVFAGRLIELNQGG

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	<p>This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.</p>
Components:	<p>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).</p>
Reconstitution Method:	<ol style="list-style-type: none">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:	<p>NM_000079.4</p>
RefSeq Size:	<p>1667 bp</p>
RefSeq ORF:	<p>1374 bp</p>
Locus ID:	<p>1134</p>
UniProt ID:	<p>P02708</p>
Cytogenetics:	<p>2q31.1</p>
Protein Families:	<p>Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane</p>
Gene Summary:	<p>The muscle acetylcholine receptor consists of 5 subunits of 4 different types: 2 alpha subunits and 1 each of the beta, gamma, and delta subunits. This gene encodes an alpha subunit that plays a role in acetylcholine binding/channel gating. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Nov 2012]</p>