

Product datasheet for **RG204040**

CHRNA1 (NM_000747) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA1 (NM_000747) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHRNA1
Synonyms:	ACHRB; CHRNA1; CMS1D; CMS2A; CMS2C; SCCMS
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG204040 representing NM_000747
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCAGGGCTCTGCTGATGCTGCTGGGGCGCTGGGGCGCCGCTCGCCCCAGGCGTCCGCGGCT
 CGGAGGCGGAGGGTTCGACTCCGGGGAAACTTTTCTTGCTATGATAGCTCCGTGCGGCCAGCGGGGA
 GGTGGGAGACCGTGTGAGGGTCAGCGTTGGTCTCATCCTGGCGCAACTCATCAGCCTGAACGAGAAGGAT
 GAAGAGATGAGCACAAGGTGTACTTAGACCTGGAGTGGACTGACTACAGGCTGAGCTGGGACCCTGCGG
 AGCAGCAGCGCATCGATTGCTCCGCATCAGCGCGGAATCCGTGTGGCTCCCTGACGTGGTACTGAA
 CAACAATGATGGGAATTTTACGTGGCTCTGGACATTAGCGTCGTGGTGTCTCCGACGGCTCCGTGCGT
 TGGCAACCCCGGCATCTATCGCAGCAGCTGCAGCATCCAGGTCACCTACTTCCCCTTCGACTGGCAGA
 ATTGCACTATGGTGTTCAGCTCTACAGCTACGACAGCTCGGAGGTCAGCCTGCAGACAGGCTGGGTCC
 TGACGGCAAGGGCATCAGGAAATCCACATTCATGAAGGACTTTCATTGAGAATGGCCAGTGGGAGATT
 ATCCACAAGCCCTCTCGGCTAATCCAGCCTCCAGGCGATCCTAGGGGAGGGAGGGAAGGACAGCGCCAGG
 AAGTCATCTTCTACCTCATCATCCGCCGAAGCCTCTCTTCTACCTGGTCAACGTCATTGCCCATGCAT
 CCTCATCACTCTTCTGGCCATCTTCGTCTTCTACCTGCCACCAGATGCAGGAGAGAAGATGGGGCTCTCA
 ATCTTTGCCCTGTGACCCCTTACTGTGTTCTGCTGCTGCTGGCTGACAAAGTACCTGAGACCTCACTAT
 CAGTACCATTATTATCAAGTACCTCATGTTTACCATGGTCTCGTCACCTTCTCAGTCATCCTTAGTGT
 CGTGGTTCTCAACCTGCACCACCCTCACCCACACCCACAAATGCCCTTTGGGTCCGTCAGATCTTC
 ATTCACAACTCCGCTGTACCTGCGTCTAAAAAGGCCAAACCCGAGAGAGACCTGATGCCGAGCCCC
 CTCACTGTTCTTCTCCAGGAAGTGGCTGGGGTCGGGGAACAGATGAATATTTTCATCCGGAAGCCGTTAAG
 TGATTTTCTTCTCCCAACCAATAGGTTCCAGCCTGAACTGTCTGCCCTGATCTGCGGCGATTTATC
 GATGGTCCAAACCGGGCTGTGGCCCTGCTTCCGGAGCTACGGGAGGTCGTCCTCTATCAGCTACATCG
 CTCGACAGCTGCAGGAACAGGAGGACCAGATGCGCTGAAGGAGGACTGGCAGTTTGTGGCCATGGTAGT
 GGACCGCCTTCTCTGTGGACTTTCATCATCTTACCAGCGTTGGGACCCTAGTCATCTTCTGGACGCC
 ACGTACCCTTGGCCCTCCAGACCCCTTCTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204040 representing NM_000747
 Red=Cloning site Green=Tags(s)

MTPGALLMLLALGAPLAPGVRGSEAEGRLRGKLFSGYDSSVRPAREVGDVRVRSVGLILAQLISLNEKD
 EEMSTKYVLDLEWTDYRLSWDPAEHDGIDSLRITAESVWLPDVVLLNNNDGNFYVALDISVVSSDGSVR
 WQPPGIYRSSCSIQVYFPPFDWQNTMVFSSYSYDSSEVSLQTGLGPDGQGHQEIHIEHGTFIENGQWEI
 IHKPSRLIQPPGDPREGREGQRQEVIFYLIIRRKPLFYLVNVIAPCILITLLAIFVFYLPDAGEKMGLS
 IFALLTLTVFLLLLADKVPETSLVPIIHKYLMFTMVLVTFVSVILSVVVLNLHHRSPHHTQMPHWVRQIF
 IHKLPLYLRKRPKPERDLMPEPPHCSSPGSGWGRGTDEYFIRKPPSDFLFPKPNRFQPELSAPDLRRFI
 DGNRAVALLPELREVSSISYIARQLQEEDHDALKEDWQFVAMVVDRLFLWTFIIFTSVGLVIFLDA
 TYHLPPDPFP

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000747

ORF Size: 1503 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_000747.2](#), [NP_000738.2](#)

RefSeq Size: 2437 bp

RefSeq ORF: 1506 bp

Locus ID: 1140

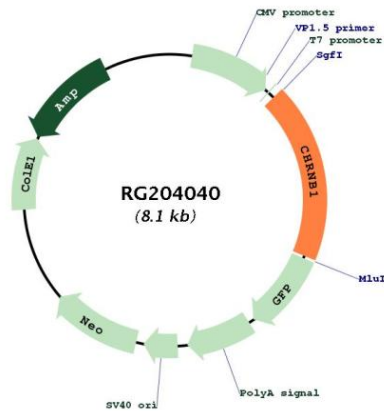
UniProt ID: [P11230](#)

Cytogenetics: 17p13.1

Protein Families: Druggable Genome, Ion Channels: Cys-loop Receptors, Transmembrane

Gene Summary: The muscle acetylcholine receptor is composed of five subunits: two alpha subunits and one beta, one gamma, and one delta subunit. This gene encodes the beta subunit of the acetylcholine receptor. The acetylcholine receptor changes conformation upon acetylcholine binding leading to the opening of an ion-conducting channel across the plasma membrane. Mutations in this gene are associated with slow-channel congenital myasthenic syndrome. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RG204040