

Product datasheet for **RG210221**

CHRN3 (NM_000749) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CHRN3 (NM_000749) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CHRN3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |
| ORF Nucleotide Sequence: | >RG210221 representing NM_000749 Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCTCCAGATTTTATGCTGGTTCTCATCGTCCTTGGCATCCCTTCTCAGCCACCACAGGTTTCAACT
CAATCGCCGAAAAATGAAGATGCCCTCCTCAGACATTTGTTCCAAGGTTATCAGAAATGGGTCCGCCCTGT
ATTACATTCTAATGACACCATAAAAGTATATTTTGGATTGAAAATATCCCAGCTTGATAGTGGATGAA
AAGAATCAGCTGATGACAACCAATGTGTGGCTCAAACAGGAATGGACAGACCACAAGTTACGCTGGAATC
CTGATGATTATGGTGGGATCCATTCCATTAAGTTCCATCAGAATCTCTGTGGCTTCTGACATAGTTCT
CTTTGAAAATGCTGACGGCCGCTTCGAAGGCTCCCTGATGACCAAGGTCATCGTGAAATCAAACGGAAT
GTTGTCTGGACCCCTCCCGCCAGCTACAAAAGCTCCTGCACCATGGACGTCACGTTTTTCCCGTTGACCC
GACAGAACTGCTCCATGAAGTTTGGATCCTGGACTTATGATGGCACCATGGTTGACCTCATTGATCAA
TGAAAATGTCGACAGAAAAGACTTCTTCGATAACGGAGAATGGGAAATACTGAATGCAAAGGGGATGAAG
GGGAACAGAAGGGACGGCGTGTACTCCTATCCCTTATCACGATTTCCTCGCTGAGACGCTGCCTT
TATTCTATACCCTCTTCTCATCATCCCTGCCTGGGGCTGTCTTCTAACAGTTCTTGTGTTCTATTT
ACCTTCGGATGAAGGAGAAAACTTTCATTATCCACATCGGTCTTGGTTTCTCTGACAGTTTTCTTTTA
GTGATTGAAGAAATCATCCATCGTCTTCAAAGTCATTCTCTCATTGGAGAGTACCTGCTGTTTCATCA
TGATTTTTGTGACCCTGTCCATCATTGTTACCGTGTGTCATTAAACGTTACCACAGATCTTCTCCAC
GTACCACCCCATGGCCCTGGGTTAAGAGGCTCTTCTGCAGAACTTCCAAAATTACTTTGCATGAAA
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AAAAAAGAAACAGAAACAGCTTAGTGATGGAGAAAAGTTCTAGTTGCTTTTTTGGAAAAGCTGCTGA
TTCCATTAGATACATTTCCAGACATGTGAAGAAAGAACATTTTATCAGCCAGGTAGTACAAGACTGGAAA
TTTGTAGCTCAAGTTCTTACCGAATCTTCTGTGGCTCTTCTGATAGTGCAGTAACAGGCTCGGTTT
TGATTTTTACCCTGCTTTGAAGATGTGGCTACATAGTTACCAT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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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_000749.3](#), [NP_000740.1](#)

RefSeq Size: 1953 bp

RefSeq ORF: 1377 bp

Locus ID: 1142

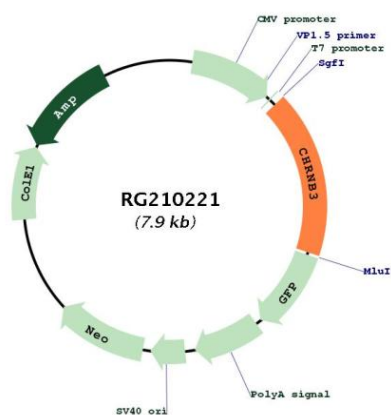
UniProt ID: [Q05901](#)

Cytogenetics: 8p11.21

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

Gene Summary: The nicotinic acetylcholine receptors (nAChRs) are members of a superfamily of ligand-gated ion channels that mediate fast signal transmission at synapses. The nAChRs are (hetero)pentamers composed of homologous subunits. The subunits that make up the muscle and neuronal forms of nAChRs are encoded by separate genes and have different primary structure. There are several subtypes of neuronal nAChRs that vary based on which homologous subunits are arranged around the central channel. They are classified as alpha-subunits if, like muscle alpha-1 (MIM 100690), they have a pair of adjacent cysteines as part of the presumed acetylcholine binding site. Subunits lacking these cysteine residues are classified as beta-subunits (Groot Kormelink and Luyten, 1997 [PubMed 9009220]). Elliott et al. (1996) [PubMed 8906617] stated that the proposed structure for each subunit is a conserved N-terminal extracellular domain followed by 3 conserved transmembrane domains, a variable cytoplasmic loop, a fourth conserved transmembrane domain, and a short C-terminal extracellular region.[supplied by OMIM, Apr 2010]

Product images:



Circular map for RG210221