

Product datasheet for **RG218853**

CHRNB4 (NM_000750) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNB4 (NM_000750) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHRNB4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG218853 representing NM_000750
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGCGCGCGCCTTCCCTGGTCTTTTCTTCTGTCGCCCTTTCGCGGCGCGGGAAGTCCGCGTGG
 CCAATGCGGAGGAAAAGCTGATGGACGACCTTCTGAACAAAACCGTTACAATAACCTGATCCGCCAGC
 CACCAGCTCCTCACAGCTCATCTCCATCAAGCTGCAGCTCTCCCTGGCCAGCTTATCAGCGTGAATGAG
 CGAGAGCAGATCATGACCACCAATGTCTGGCTGAAACAGGAATGGACTGATTACCGCCTGACCTGGAACA
 GCTCCCGCTACGAGGGTGTGAACATCCTGAGGATCCCTGCAAAGCGCATCTGGTTGCCTGACATCGTGCT
 TTACAACAACGCCGACGGGACCTATGAGGTGTCTGTCTACACCAACTTGATAGTCCGGTCCAACGGCAGC
 GTCCTGTGGTGCCTCCATCTACAAGAGTGCCTGCAAGATTGAGGTGAAGTACTTTCCTTCGACC
 AGCAGAAGTGCACCTCAAGTTCGCTCCTGGACCTATGACCACACGGAGATAGACATGGTCTCATGAC
 GCCACAGCCAGCATGGATGACTTTACTCCAGTGGTGTGAGTGGGACATAGTGGCCCTCCAGGGAGAAGG
 ACAGTGAACCCACAAGACCCAGCTACGTGGACGTGACTTACGACTTCATCATCAAGCGCAAGCCTCTGT
 TCTACACCATCAACCTCATCATCCCTGCGTGTCTCACCACCTTGTGGCCATCCTCGTCTTCTACCTGCC
 ATCCGACTGCGGCGAGAAGATGACACTGTGCATCTCAGTGTGCTGGCACTGACATTCTTCTGTGCTC
 ATCTCAAAGATCGTGCCACCCACCTCCCTCGATGTGCCTCTCATCGGCAAGTACCTCATGTTCCACATGG
 TGCTGGTACCTTCTCCATCGTACCAGCGTCTGTGTGCTCAATGTGCACCACCGCTCGCCAGCACCCA
 CACCATGGCACCCTGGGTCAAGCGCTGCTTCTGCACAAGTGCCTACCTTCTTCTCATGAAGCGCCCT
 GGCCCCGACAGCAGCCCGCCAGAGCCTTCCCGCCAGCAAGTCAATGCGTGACCAAGCCCGAGGCCACCG
 CCACCTCCACAGCCCTCAACTTCTATGGGAAGTCCATGTACTTTGTGAACCCCGCCTCTGCAGGTTT
 CAAGTCTCCAGCCGGCTCTACCCGGTGGCTATCCCGAGGATTCTGGCTGCGGTCTCTGGGAGGTTT
 CGACAGGATGTGCAGGAGCATTAGAAGGTGTGAGCTTCTCATCGCCAGCAGCATGAAGAATGACGATGAAG
 ACCAGAGTGTGTTGAGGACTGGAAGTACGTGGCTATGGTGGTGGACCGCTGTTCTGTGGGTGTTTCT
 GTTTGTGTGCGTCTGGGCACTGTGGGCTCTTCTACC GCCCTCTTCCAGACCCATGCAGCTTCTGAG
 GGGCCCTACGCTGCCAGCGTGAC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218853 representing NM_000750
 Red=Cloning site Green=Tags(s)

MRRAPSLVLFVALCGRGNCRVANAEEKLMDDLLNKTRYNNLIRPATSSSQLISIKLQLSLAQLISVNE
 REQIMTTNVWLKQEWTDYRLTWNSSRYEGVNILRIPAKRIWLPDIVLYNNADGTYEVSVYTNLIVRSNGS
 VLWLPPAIYKSACKIEVKYFPFDQONCTLKFRSWTYDHTEIDMVLMTPTASMDDFTPSGEWDIVALPGRR
 TVNPQDPSYVDVYDFI IKRKPLFY TINLIIPCVL TLLAILVFYLP SDCGEKMTLCISVLLALTFLLL
 ISKIVPPTSLDVPLIGKYLMTMVLVTF SIVTSVCVLNVHHRSPSTHTMAPWVKRCFLHKLPTFLFMKRP
 GPDSSPARAFPPSKSCVTKPEATATSTSPSNFYGNSMYFVNPASAASKSPAGSTPVAIPRDFWLRSGRF
 RQDVQEALEGVSFIAQHMKNDEEDQSVVEDWKYVAMVVDRLFLWVFMFVCLGTVGLFLPPLFQTHAASE
 GPYAAQRD

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_000750

ORF Size: 1494 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_000750.2](#), [NP_000741.1](#)

RefSeq Size: 2447 bp

RefSeq ORF: 1497 bp

Locus ID: 1143

UniProt ID: [P30926](#)

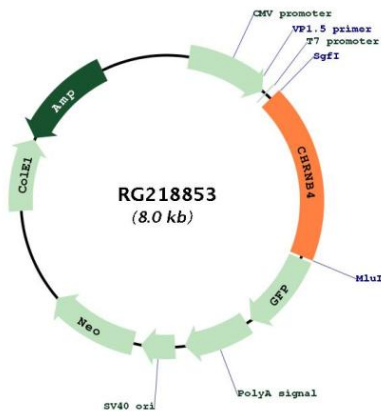
Cytogenetics: 15q25.1

Protein Families:

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

Gene Summary:

This gene is found within a conserved gene cluster and encodes one of the beta subunits of the nicotinic acetylcholine receptor (nAChRs) superfamily which form ligand-gated ion channels with a central pore that forms a cation channel. Neuronal nAChRs are pentameric structures that can be either homomeric or heteromeric, with heteromeric structures containing both alpha and beta subunits. Each subunit contains an extracellular amino terminus and four transmembrane domains. Nicotine is one of the agonists that binds to the receptor. Variants in this gene have been associated with nicotine dependence and lung cancer. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Sep 2017]

Product images:


Circular map for RG218853