

Product datasheet for **RG204868**

CHRNA6 (NM_004198) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | CHRNA6 (NM_004198) Human Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | CHRNA6 |
| Synonyms: | CHNRA6 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>RG204868 representing NM_004198
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGCTGACCAGCAAGGGGACGGGATTCTTTCATGGGGCTTGTGTCTCTGGCTGTGTGTGTTACACCTT
 TCTTTAAAGGCTGTGTGGCTGTGCAACTGAGGAGAGGCTCTCCACAACTGTTTTCTCATTACAACCA
 GTTCATCAGGCCTGTGGAAAACGTTTCCGACCCTGTCACGGTACACTTTGAAGTGCCATCACCCAGCTG
 GCCAACGTGGATGAAGTAAACCAGATCATGAAACCAATTTGTGGCTGCGTCACATCTGGAATGATTATA
 AATTGCGCTGGATCCAATGGAATATGATGGCATTGAGACTCTTCGCGTTCCTGCAGATAAGATTGGAA
 GCCCGACATTGTTCTCTATAACAATGCTGTTGGTACTTCCAAGTAGAAGGCAAAACAAAAGCTCTTCTT
 AAATACAATGGCATGATAACCTGGACTCCACCAGCTATTTTTAAGAGTTCCTGCCCTATGGATACCT
 TTTTCCCTTTTGATCATCAAACTGTTCCCTAAAATTTGGTTCCTGGACGTATGACAAAGCTGAAATTGA
 TCTTCTAATCATTGGATCAAAAGTGATATGAATGATTTTTGGGAAAACAGTGAATGGGAAATCATTGAT
 GCCTCTGGCTACAACATGACATCAAATACAACCTGTTGTGAAGAGATATACACAGATATAACCTATTCTT
 TCTACATTAGAAGATTGCCGATGTTTTACACGATTAATCTGATCATCCCTTGCTCTTTATTTTCATTCTT
 AACCGTGTGGTCTTTTACCTTCCTTCGGACTGTGGTGA AAAAGTGACGCTTTGTATTTCACTCCTGCTT
 TCTCTGACTGTGTTTTGCTGGTGCATCAGAAAACCATCCCATCCACATCTCTGGTGGTCCCCTGGTGG
 GTGAGTACCTGCTGTTACCATGATCTTTGTACACTGTCCATCGTGGTACTGTGTTTGTGTTGAACAT
 ACACTACCGCACCCCAACCACGCACACAATGCCAGGTGGTGAAGACAGTTTTCTGAAGCTGCTGCC
 CAGGTCCTGCTGATGAGGTGGCCTCTGGACAAGACAAGGGGCACAGGCTCTGATGCAGTCCCAGAGGCC
 TTGCCAGGAGCCTGCCAAAGGCAAGCTTGAAGCCATGGGGAACCCAGACATCTAAAGAATGCTTCCA
 TTGTCACAAATCAAATGAGCTTGCCACAAGCAAGAGAAGATTAAAGTCATCAGCCATTACAGTGGGTGGT
 GAAAATTCGAGCACTCGCTGAAGTTGAAGATGTGATTAACAGTGTTTCAGTTCATAGCAGAAAACATGA
 AGAGCCACAATGAAACCAAGGAGGTAGAAGATGACTGGAATACGTGGCCATGGTGGTGGACAGAGTATT
 TCTTTGGTATTATAATTGTCTGTGATTTGGAAGTGCAGGGCTATTTCTACAGCCACTACTTGGGAAC
 ACAGGAAAATCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204868 representing NM_004198
 Red=Cloning site Green=Tags(s)

MLTSKGQGFLLHGGCLWLCVFTPPFFKGCVCATEERLFHKLFSHYNQFIRPVENVSDPVTVHFEVAITQL
 ANVDEVNQIMETNLWLRHIWNDYKLRWDPMEYDGIETLRVPADKIWKPDIVLYNNAVGFQVEGKTKALL
 KYNGMITWTPPAIFKSSCPMDITFFPFQDHQNC SLKFGSWTYDKAEIDLLIIGSKVDMNDFWENSEWEIID
 ASGYKHDIKYNCCEEIYTDITYSFYIRRLPMFYINLIIPCLFISFLT VLVFYLPSPDCGEKVTLCISVLL
 SLTVFLLVITETIPSTSLVVPLVGEYLLFTMIFVTL SIVVTVFV LNIHYRTPTTHTMPRWVKT VFLKLLP
 QVLLMRWPLDKTRGTGSDAVPRGLARRPAKGLASHGEP RHLKECFHCHKSNELATSKRRLSHQPLQWV
 ENSEHSPEVEDVINSVQFIAENMKSHNETKEVEDD WKYVAMVVDRVFLWVFIIVCVFGTAGLFLQPLLGN
 TGKS

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_004198

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_004198.3](#)

RefSeq Size: 2090 bp

RefSeq ORF: 1485 bp

Locus ID: 8973

UniProt ID: [Q15825](#)

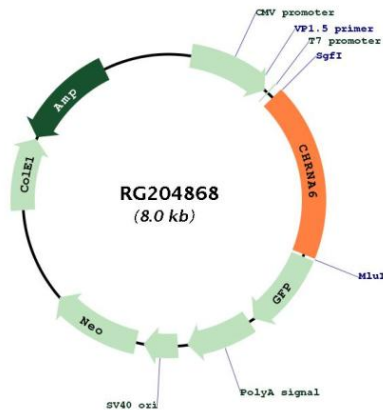
Cytogenetics: 8p11.21

Protein Families:

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

Gene Summary:

This gene encodes an alpha subunit of neuronal nicotinic acetylcholine receptors. These receptors consist of five subunits and function as ion channels involved in neurotransmission. The encoded protein is a subunit of neuronal nicotinic acetylcholine receptors that mediate dopaminergic neurotransmission and are activated by acetylcholine and exogenous nicotine. Alternatively spliced transcript variants have been observed for this gene. Single nucleotide polymorphisms in this gene have been associated with both nicotine and alcohol dependence. [provided by RefSeq, Dec 2010]

Product images:


Circular map for RG204868