OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

Product datasheet for RC204868

CHRNA6 (NM_004198) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA6 (NM_004198) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHRNA6
Synonyms:	CHNRA6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC204868 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGCTGACCAGCAAGGGGCAGGGATTCCTTCATGGGGGCTTGTGTCTCTGGCTGTGTGTGTTCACACCTT
TCTTTAAAGGCTGTGTGGGCTGTGCAACTGAGGAGAGGCTCTTCCACAAACTGTTTTCTCATTACAACCA
GTTCATCAGGCCTGTGGAAAACGTTTCCGACCCTGTCACGGTACACTTTGAAGTGGCCATCACCCAGCTG
GCCAACGTGGATGAAGTAAACCAGATCATGGAAACCAATTTGTGGCTGCGTCACATCTGGAATGATTATA
AATTGCGCTGGGATCCAATGGAATATGATGGCATTGAGACTCTTCGCGTTCCTGCAGATAAGATTTGGAA
GCCCGACATTGTTCTCTATAACAATGCTGTTGGTGACTTCCAAGTAGAAGGCAAAACAAAAGCTCTTCTT
AAATACAATGGCATGATAACCTGGACTCCACCAGCTATTTTTAAGAGTTCCTGCCCTATGGATATCACCT
TTTTCCCTTTTGATCATCAAAACTGTTCCCTAAAATTTGGTTCCTGGACGTATGACAAAGCTGAAATTGA
TCTTCTAATCATTGGATCAAAAGTGGATATGAATGATTTTTGGGAAAACAGTGAATGGGAAATCATTGAT
GCCTCTGGCTACAAACATGACATCAAATACAACTGTTGTGAAGAGATATACACAGATATAACCTATTCTT
TCTACATTAGAAGATTGCCGATGTTTTACACGATTAATCTGATCATCCCTTGTCTCTTTATTTCATTTCT
AACCGTGTTGGTCTTTTACCTTCCTTCGGACTGTGGTGAAAAAGTGACGCTTTGTATTTCAGTCCTGCTT
TCTCTGACTGTGTTTTTGCTGGTCATCACAGAAACCATCCCATCCACATCTCTGGTGGTCCCACTGGTGG
GTGAGTACCTGCTGTTCACCATGATCTTTGTCACACTGTCCATCGTGGTGACTGTGTTTGTGTTGAACAT
ACACTACCGCACCCCAACCACGCACACAATGCCCAGGTGGGTGAAGACAGTTTTCCTGAAGCTGCTGCCC
CAGGTCCTGCTGATGAGGTGGCCTCTGGACAAGACAAGGGGCACAGGCTCTGATGCAGTGCCCAGAGGCC
TTGCCAGGAGGCCTGCCAAAGGCAAGCTTGCAAGCCATGGGGAACCCAGACATCTTAAAGAATGCTTCCA
TTGTCACAAATCAAATGAGCTTGCCACAAGCAAGAGAAGATTAAGTCATCAGCCATTACAGTGGGTGGTG
GAAAATTCGGAGCACTCGCCTGAAGTTGAAGATGTGATTAACAGTGTTCAGTTCATAGCAGAAAACATGA
AGAGCCACAATGAAACCAAGGAGGTAGAAGATGACTGGAAATACGTGGCCATGGTGGTGGACAGAGTATT
TCTTTGGGTATTTATAATTGTCTGTGTATTTGGAACTGCAGGGCTATTTCTACAGCCACTACTTGGGAAC
ACAGGAAAATCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC204868 protein sequence
Red=Cloning site Green=Tags(s)

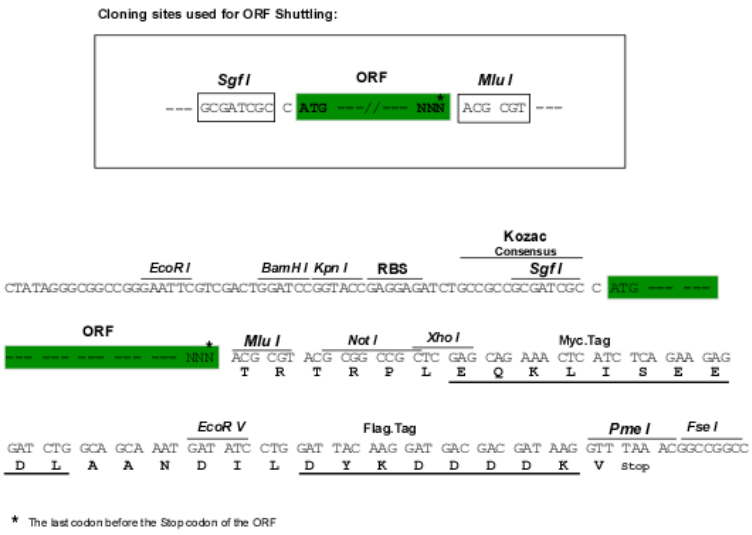
MLTSKGQGFLHGGLCLWLCVFTPFFKGCVGCATEERLFHKLFSHYNQFIRPVENVSDPVTVHFEVAITQL
ANVDEVNQIMETNLWLRHIWNDYKLRWDPMEYDGIETLRVPADKIWKPDIVLYNNAVGDFQVEGKTKALL
KYNGMITWTPPAIFKSSCPMDITFFPFDHQNCSLKFGSWTYDKAEIDLLIIGSKVDMNDFWENSEWEIID
ASGYKHDIKYNCCEEIYTDITYSFYIRRLPMFYTINLIIPCLFISFLTVLVFYLPSDCGEKVTLCISVLL
SLTVFLLVITETIPSTSLVVPLVGEYLLFTMIFVTLSIVVTVFVLNIHYRTPTTHTMPRWVKTVFLKLLP
QVLLMRWPLDKTRGTGSDAVPRGLARRPAKGKLASHGEPRHLKECFHCHKSNELATSKRRLSHQPLQWVV
ENSEHSPEVEDVINSVQFIAENMKSHNETKEVEDDWKYVAMVVDRVFLWVFIIVCVFGTAGLFLQPLLGN
TGKS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6063_a08.zip

Restriction Sites: SgfI-MluI

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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: NM_004198.3

RefSeq Size: 2400 bp

RefSeq ORF: 1485 bp

Locus ID: 8973

UniProt ID: Q15825

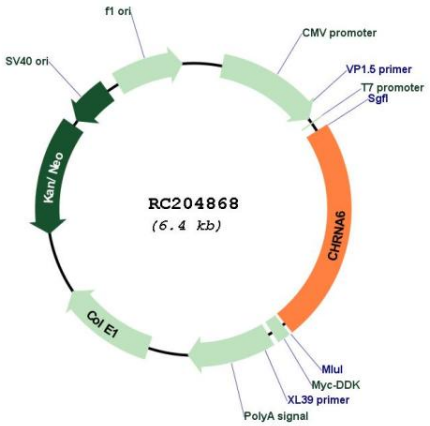
Cytogenetics: 8p11.21

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

MW: 56.9 kDa

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 RC204868