

Product datasheet for **RG230168**

CHRNA3 (NM_001166694) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA3 (NM_001166694) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CHRNA3
Synonyms:	BAIPRCK; LNCR2; NACHRA3; PAOD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG230168 representing NM_001166694
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGCTCTGGCCGCTCTCGCTGCCCTGGCGTGTGCGCGCCGCGGCTGCTGCTGCTGCTGCTGCTGCT
 CTCTGCTGCCAGTGGCCAGGCTCAGAGGCTGAGCACCGTCTATTTGAGCGGCTTTGAAGATTACAA
 TGAGATCATCCGGCCTGTAGCCAACGTGTGACCCAGTCATCATCCATTTGAGGTTGCCATGTCTCAG
 CTGGTGAAGGTGGATGAAGTAAACCAGATCATGGAGACCAACCTGTGGCTCAAGCAAATCTGGAATGACT
 ACAAGCTGAAATGGAACCCCTCTGACTATGGTGGGCGAGTTTCATGCGTGTCCCTGCACAGAAGATCTG
 GAAGCCAGACATTGTGCTGTATAACAATGCTGTTGGGATTTCCAGGTGGACGACAAGACCAAAGCCTTA
 CTCAAGTACACTGGGAGGTGACTTGGATACCTCCGCCATCTTAAGAGCTCCTGTAATAATCGACGTGA
 CCTACTCCCGTTTGATTACAAAACGTACCATGAAGTTCGGTTCCTGGTCTACGATAAGGCGAAAAT
 CGATCTGGTCTGATCGGCTCTCCATGAACCTCAAGGACTATTGGGAGAGCGGCGAGTGGCCATCATC
 AAAGCCCCAGGCTACAAACACGACATCAAGTACAACCTGCTGCGAGGAGATCTACCCCGACATCACATACT
 CGCTGTACATCCGGCGCCTGCCCTTGTCTACACCATCAACCTCATCATCCCCTGCCTGCTCATCTCCTT
 CCTCACTGTGCTCGTCTTCTACCTGCCCTCCGACTGCGGTGAGAAGGTGACCCTGTGCATTTCTGTCCCTC
 CTCTCCCTGACGGTGTCTCTCTGGTGACTACTGAGACCATCCCTCCACCTCGCTGGTCAATCCCCTGA
 TTGGAGAGTACCTCCTGTTACCATGATTTTTGTAACCTTGCCATCGTCATCACCGTCTTCGTGCTCAA
 CGTGCCTACAGAACCCGACGACACACAATGCCCTCATGGGTGAAGACTGTATTCTTGAACCTGCTC
 CCCAGGGTCATGTTTCATGACCAGGCCAACAGCAACGAGGGCAACGCTCAGAAGCCGAGGCCCCCTACG
 GTGCCGAGCTCTCAAATCTGAATTGCTTCAGCCGCGAGAGTCCAAAGGCTGCAAGGAGGCTACCCCTG
 CCAGGACGGGATGTGTGTTACTGCCACCACCGCAGGATAAAAAATCTCAATTTCAAGTGTAACTACG
 AGAAGCTCTAGTTCTGAATCTGTTGATGCTGTGCTGTCCCTCTCTGCTTTGTACCCAGAAATCAAAGAAG
 CCATCCAAAGTGTCAAGTATATTGCTGAAAATATGAAAGCACAAAATGAAGCCAAAGAGGAACAAAAAGC
 CCAAGAGATCCAACAATTGAAACGAAAAGAAAAGTCCACAGAAACATCCGATCAAGAACCTGGGCTA

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG230168 representing NM_001166694
 Red=Cloning site Green=Tags(s)

MGSGLSLPLALSPRLLLLLLLLSLLPVARASEAERL FERLFEDYNEIIRPVANVSDPVI IHFEVMSQ
 LVKVDEVNQIMETNLWLKQIWNKYKWKWNP SDYGGAEFMRVPAQKIWKPDIVLYNNAVGFQVDDKTKAL
 LKYTGVEWIPPAIFKSSCKIDVTYFPFDYQNC TMKFGWSYDKAKIDLVLIGSSMNLKDYWESGEWAI I
 KAPGYKHDIKYNCEEIYPDITYSLYIRRLPLFY TINLIIPCLLISFLTVLVFYLP SDCGEKVTLCISVL
 LSLTVFLLVITETIPSTSLVIPLIGEYLLFTMIFV TLSIVITVFVNLNVHYRPTTHTMPSWVKTVFLNLL
 PRVMFMRPTSNEGNAQKPRPLYGAELSNL NCF SRAESKGCKEGYPCQDGMCGYCHHRIKISNFSANLT
 RSSSESVDVAVLSALSPEIKEAIQSVKYIAENMKAQNEAKEEQKAQEIQQLKRKEKSTETSDQEPGL

TRTRPLE – GFP Tag – V

Restriction Sites:

SgfI-MluI

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_001166694.2](#)

RefSeq Size: 2040 bp

RefSeq ORF: 1470 bp

Locus ID: 1136

UniProt ID: [P32297](#)

Cytogenetics: 15q25.1

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

Gene Summary: This locus encodes a member of the nicotinic acetylcholine receptor family of proteins. Members of this family of proteins form pentameric complexes comprised of both alpha and beta subunits. This locus encodes an alpha-type subunit, as it contains characteristic adjacent cysteine residues. The encoded protein is a ligand-gated ion channel that likely plays a role in neurotransmission. Polymorphisms in this gene have been associated with an increased risk of smoking initiation and an increased susceptibility to lung cancer. Alternatively spliced transcript variants have been described. [provided by RefSeq, Nov 2009]