

## Product datasheet for **RC230168**

### CHRNA3 (NM\_001166694) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	CHRNA3 (NM_001166694) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CHRNA3
Synonyms:	BAIPRCK; LNCR2; NACHRA3; PAOD2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC230168 representing NM\_001166694  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGGCTCTGGCCGCTCTCGCTGCCCTGGCGTGTGCGCGCCGCGGCTGCTGCTGCTGCTGCTGCTGCT  
 CTCTGCTGCCAGTGGCCAGGGCCTCAGAGGCTGAGCACCGTCTATTTGAGCGGCTGTTGAAGATTACAA  
 TGAGATCATCCGGCCTGTAGCCAACGTGTCTGACCCAGTCATCATCCATTTGAGGTTGCCATGTCTCAG  
 CTGGTGAAGTGGATGAAGTAAACCAGATCATGGAGACCAACCTGTGGCTCAAGCAAATCTGGAATGACT  
 ACAAGCTGAAATGGAACCCCTCTGACTATGGTGGGCGAGTTTCATGCGTGTCCCTGCACAGAAGATCTG  
 GAAGCCAGACATTGTGCTGTATAACAATGCTGTTGGGATTTCCAGGTGGACGACAAGACCAAAGCCTTA  
 CTCAAGTACACTGGGAGGTGACTTGGATACCTCCGGCCATCTTAAGAGCTCCTGTAATAATCGACGTGA  
 CCTACTCCCGTTTGATTACAAAACGTACCATGAAGTTCGGTTCCTGGTCTACGATAAGGCGAAAAAT  
 CGATCTGGTCTGATCGGCTCTCCATGAACCTCAAGGACTATTGGGAGAGCGGCGAGTGGCCATCATC  
 AAAGCCCCAGGCTACAAACACGACATCAAGTACAACCTGCTGCGAGGAGATCTACCCCGACATCACATACT  
 CGCTGTACATCCGGCGCCTGCCCTTGTCTACACCATCAACCTCATCATCCCCTGCCTGCTCATCTCCTT  
 CCTCACTGTGCTCGTCTTCTACCTGCCCTCCGACTGCGGTGAGAAGGTGACCCTGTGCATTTCTGTCCCTC  
 CTCTCCCTGACGGTGTCTCTCTGGTGACTACTGAGACCATCCCTCCACCTCGCTGGTCAATCCCCTGA  
 TTGGAGAGTACCTCCTGTTACCATGATTTTTGTAACCTTGCCATCGTCATCACCGTCTTCGTGCTCAA  
 CGTGCCTACAGAACCCCGACGACACACAATGCCCTCATGGGTGAAGACTGTATTCTTGAACCTGCTC  
 CCCAGGGTCATGTTTCATGACCAGGCCAACAGCAACGAGGGCAACGCTCAGAAGCCGAGGCCCCCTACG  
 GTGCCGAGCTCAAATCTGAATTGCTTCAGCCGCGAGAGTCCAAAGGCTGCAAGGAGGCTACCCCTCAG  
 CCAGGACGGGATGTGTGTTACTGCCACCACCGCAGGATAAAAACTCCAATTTCAAGTGTAACTCAGG  
 AGAAGCTCTAGTTCTGAATCTGTTGATGCTGTGCTGCTCCCTCTGCTTTGTACCCAGAAATCAAAGAAG  
 CCATCCAAAGTGTCAAGTATATTGCTGAAAAATGAAAGCACAAAATGAAGCCAAAGAGGAACAAAAAGC  
 CCAAGAGATCCAACAATTGAAACGAAAAGAAAAGTCCACAGAAACATCCGATCAAGAACCTGGGCTA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC230168 representing NM\_001166694  
 Red=Cloning site Green=Tags(s)

MGSGPLSLPLALSPRLLLLLLLLSLLPVARASEAHLRFLRFDYNEIIRPVANVSDPVIIFHEVMSMSQ  
 LVKVDEVNQIMETNLWLKQIWNDYKWKWNPSPDYGGAEFMRVPAQKIWKPDIVLYNNAVGFQVDDKTKAL  
 LKYTGEVTWIPPAIFKSSCKIDVTYFPFDYQNCMTKFGSWSYDKAKIDLVLIGSSMNLKDYWESGEWAI  
 KAPGYKHDIKYNCCEIYPDITYSLYIRRLPLFYINLIIPCLLISFLTIVLVFYLPSCGKVTLCISVL  
 LSLTVFLLVITETIPSTSLVIPLIGEYLLFTMIFVTLIVITVFLNVHYRTPHTHTMPSWVKTVFLNLL  
 PRVMFMRPTSNEGNAQKPRPLYGAELSNLNCFSRAESKGCKEGYPCQDGMCGYCHHRIKISNFSANLT  
 RSSSESVDVAVLSALSPEIKEAIQSVKYIAENMKAQNEAKEEQKAQEIQLKRKEKSTETSDQEPGL

**TR**TRPLEQ**KL**ISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

**Cloning Scheme:**


**ACCN:** NM\_001166694

**ORF Size:** 1467 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\\_001166694.2](#)

**RefSeq ORF:** 1470 bp

**Locus ID:** 1136

**UniProt ID:** [P32297](#)

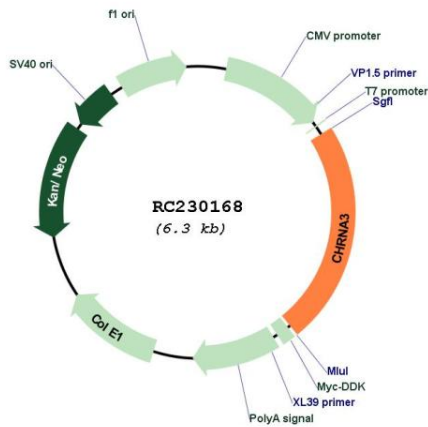
**Cytogenetics:** 15q25.1

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

**MW:** 56.1 kDa

**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]

**Product images:**



Circular map for RC230168