

## Product datasheet for **RR213099**

### Chrnb2 (NM\_019297) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chrnb2 (NM_019297) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrnb2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

**ORF Nucleotide Sequence:**

>RR213099 representing NM\_019297  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCCGGGCACTCCAACCTCAATGGCGCTGTTAGCTTACGCTTCTTTGGCTGTGCTCAGGGGTTTTGG  
 GAACTGACACAGAGGAGCGGCTAGTGGAGCATCTTAGATCCCTCCCGCTATAACAAGCTGATTGCTCC  
 AGCTACTAACGGCTCTGAGCTGGTACTGTACAGCTCATGGTATCATTGGCTCAGCTCATTAGTGTGCAC  
 GAGCGGGAGCAGATCATGACCACCAATGTCTGGCTGACCCAGGAGTGGGAAGATTACCGCTCACATGGA  
 AGCCTGAGGACTTCGACAATATGAAGAAAGTCCGGCTCCCTTCAAACACATCTGGCTCCAGATGTGGT  
 TCTATAACAACATGTGACGGCATGTACGAAGTCTCTTCTATTCCAATGCTGTGGTCTCCTATGATGGC  
 AGCATCTTTGGCTACCACCTGCCATCTACAAGAGTGCATGCAAGATTGAGGTGAAGCACTTCCCATTTG  
 ACCAGCAGAATTGCACCATGAAGTTTCGCTCATGGACCTACGACCGTACTGAGATTGACCTGGTGTCAA  
 AAGTGATGTGGCCAGTCTGGATGACTTACACCCAGCGGGGAGTGGGACATCATCGCACTGCCAGGCCGA  
 CGCAACGAGAACCAGACGACTCCACCTATGTGGACATCACTATGACTTCATCATTCTGTCGAAACCAC  
 TCTTCTACACTATCAACCTCATCATCCCTGCGTACTCATCACCTCGCTGGCCATCCTGGTCTTCTACCT  
 GCCCTCAGACTGTGGTAAAAGATGACACTTTGTATTTCTGTGCTGCTAGCACTCACGGTGTTCCTGCTG  
 CTCATCTCCAAGATTGTGCCTCCACCTCCCTCGATGTACCGCTGGTGGGCAAGTACCTCATGTTTACCA  
 TGGTGCTAGTACCTTCTCCATCGTACCAGCGTGTGTGTGCTCAATGTGCACCACCGCTCGCCTACCAC  
 GCACACCATGGCCCCCTGGTCAAGTGGTCTTCTGGAGAAGCTGCCACCCCTGCTTCTCTGCAGCAG  
 CCACGCCACCGCTGTGCACGTACGCGTCTGCGCTTGAGGAGGCCAGCGAGAGCGTGAAGGCGCAGCGG  
 CGCTTTTCTCCGTGAAGTCTTCCGCTGACCCATGTACCTGCTTTGTCAACCCATGCATCAGTCAAGGG  
 CTTGGCTGGGGCTTCCGAGCTGAGCCCACTGCAGCCGGCCCGGGCGCTCTGTGGGCCATGCAGCTGT  
 GGCTCCGGGAAGCAGTGGATGGCGTACGCTTATTGCGGACCACATGCGAAGTGAAGGATGATGACCAGA  
 GTGTGAGGGAGGACTGGAATACGTTGCCATGGTATCGACCGCTGTTCTGTGGATCTTTGTCTTTGT  
 CTGTGTCTTTGGGACCGTCGGCATGTTCTGCAGCCTCTCTCCAGAACTACACTGCCACTACCTTCTCT  
 CACCCTGACCACTCAGCTCCAGCTCCAAG

**ACCGGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR213099 representing NM\_019297  
 Red=Cloning site Green=Tags(s)

MAGHSNSMALFSFLLWLCSGVLGTDTEERLVEHLLDPSRYNKLIRPATNGSELVTVQLMVSLAQLISVH  
 EREQIMTNNVWLTQEWEDYRLTWKPEDFDNMKKVRLPSKHIWLPDVVLYNNADGMYEVSFYSNVVSYDG  
 SIFWLPPAIYKSACKIEVKHFPFDQONCTMKFRSWTYDRTEIDLVLKSDVASLDDFTPSGEWDIIALPGR  
 RNENPDDSTYVDITYDFIIRRKPLFYTNLIIPCVLITSLAILVFYLPSDCGEKMTLCISVLLALTVFLL  
 LISKIVPPTSLDVPLVGKYLMTMVLVTFIVTSVCLNVHRSPTTHTMAPWVKVVFLEKLPDLLFLQQ  
 PRHRCARQLRLRRRQREREGALFFREGPAADPCTCFVNPASVQQLAGAFRAEPTAAGPGRSVGPCSC  
 GLREAVDGVRFIADHMREDDDDQSVREDWKYVAMVIDRLFVIFVFCVFGTVGMFLQPLFQNYTATTFLL  
 HPDHSAPSSK

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

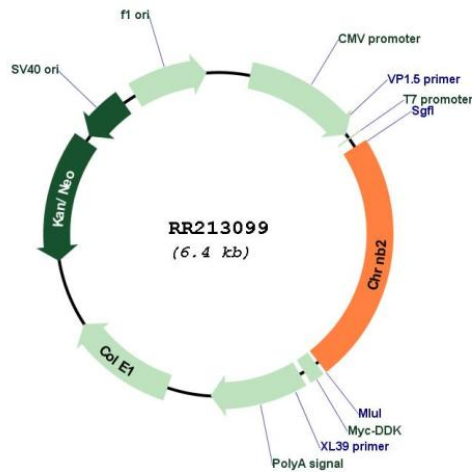
**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM\_019297

ORF Size: 1500 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\\_019297.1](#), [NP\\_062170.1](#)

**RefSeq Size:** 2197 bp

**RefSeq ORF:** 1503 bp

**Locus ID:** 54239

**UniProt ID:** [P12390](#)

**Cytogenetics:** 2q34

**MW:** 56.9 kDa

**Gene Summary:** co-assembles with the alpha 7 subunit to form a functional heteromeric nicotinic acetylcholine receptor [RGD, Feb 2006]