

Product datasheet for **RR210553**

Chrnb1 (NM_012528) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrnb1 (NM_012528) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrnb1
Synonyms:	Acrb; nAChR; RNACRB1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR210553 representing NM_012528
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCCTTAGGGCGCTGCTTCTGATTCTGGGATACTCGGGACGCCCTCGCCCCAGGAGCCCGGGT
 CGGAAGCCGAAGCCAACCTGCTTAAGAACTTTCTCGGATTATGATAGCTCAGTAAGGCCGGCGCAGGA
 GGTGGGAGACCGCTCGGGTCAAGCATCGGCTCACCTGGCGCAACTCATCAGCCTGAACGAGAAGGAT
 GAAGAAATGAGCACAAGGTGTACTTAGACCTGGAGTGGACCGACTACAGTTAAGCTGGGACCCCGCAG
 AACACGATGGCATCGAGTCTCTCCGTGCTACTGCTGAATCTGTTGGCTCCCGACGTGGTCTGCTGAA
 CAACAATGATGAAAACCTTGACGTTGCCCTGGACATTAATGTCGTGGTGCCTTTGAGGGCTCTGTGCGC
 TGGCAACCCCTGGCCTGTATCGCAGCAGTGCAGCATCCAGGTCACCTACTTCCCCTTTGACTGGCAGA
 ATTGACCATGGTGTAGTTCTACAGCTATGACAGCTCTGAGGTCAGCCTGAAGACAGGCCAGATCC
 TGATGGACAGGAGAGGCAGGAACTACATCCATGAAGGGACCTTCATCGAGAATGGTCAATGGGAGATT
 ATCCACAAACCTCTAGGTTAATCCACCTTCCAGGGGATCGAAGAGGAGGGAAGGAGACATCGTGAGG
 AAGTTATCTTCTATCTCATTATTCGGAGGAAGCCTCTCTTCTACCTGGTCAATGTCAATGCCCGTGCAT
 CCTCATACCCTCCTGGCCATCTTTGTTTTCTACCTTCCACCAGATGCAGGAGAGAAGATGGGGCTCTCC
 ATCTTTGCCCTGCTGACCCTCACTGTGTTCTTGCTGCTGCTGGCCGACAAAGTGCCTGAGACCTCCCTGG
 CGGTCCCATCATCATCAAGTATCTCATGTTTACCATGATCCTTGTACCTTCTCAGTTATCCTTAGCGT
 TGTGGTCTCACTTGCACCATCGCTCACCCACACCCACAAATGCCCTTTGGGTCCGCCAGATCTTC
 ATTCACAAGCTCCCTCCATACCTGGGTCTGAAGAGGCCAAACCCGAGAGAGACCAACTACCCGAACCC
 ATCACTCCTTCTCCCAAGGAGTGGCTGGGGCCGAGGAAGTGAATATTTTCATACGGAAGCCTCCATG
 TGATTTTCTTTTCCCTAACTTAACAGGTTTTCAGCCTGAATCACCTGCTCCGGACCTGAGACGATTTATC
 GATGGTCCACCCCGGGCTGTAGGTCTGCCTCAGGAGCTACGCGAGGTCAATTTCTCCATCAGCTACATGG
 CCCGACAACCTCAGGAACAGGAGGACCAGATGCACTGAAGGAGGACTGGCAGTTTGTGCCATGTTGT
 GGACCGTCTTTTCTGTGGACATTCATCGTTTTACAAGCGTCCGGACGCTAGTCATTTTCTAGATGCC
 ACGTACCATTGGCCCTCCTGAACCTTTTCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210553 representing NM_012528
 Red=Cloning site Green=Tags(s)

MALGALLLILGILGTPLAPGARGSEAEQQLLKLFSDYDSSVRPAQEVGDRVGVSIGLTLAQLISLNEKD
 EEMSTKVYLDLEWTDYRLSWDPAEHDGIESLRVTAESVWLPDVLLNNNDGNFDVALDINVVVSFEQSVR
 WQPPGLYRSSCSIQVYFPFDWQNTMVFSSYSYDSSEVSLKTGPDQGERQEIYIHEGTFIENGQWEI
 IHKPSRLIHLPGDRRGKEGHREEVIFYLIIRKPLFYLVNVIAPCILITLLAIFVFYLPDAGEKMGLS
 IFALLTLTVFLLLADKVPETSLAVPII IKYLMFTMILVTFVILSVVVLNLHHRSPHMQPFVWRQIF
 IHKLPPYLGLKRPKPERDQLPEPHHSFSPRSGWGRGTDEYFIRKPPCDFLFPKLNRFQPEPAPDLRRFI
 DGPPRAVGLPQELREVISSISYMARQLQEEDHDALKEDWQFVAMVVDRLFLWTFIVFTSVGTLVIFLDA
 TYHLPPPEFPF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_012528

ORF Size: 1503 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_012528.1](#), [NP_036660.1](#)

RefSeq Size: 2283 bp

RefSeq ORF: 1506 bp

Locus ID: 24261

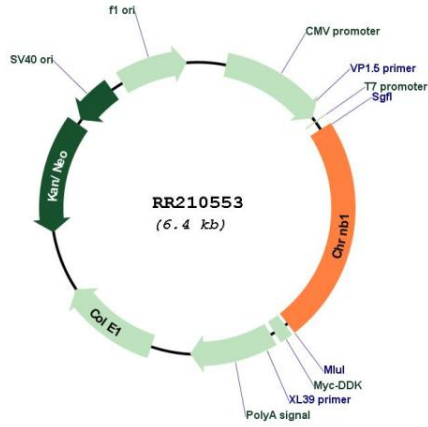
UniProt ID: [P25109](#)

Cytogenetics: 10q24

MW: 57 kDa

Gene Summary: beta subunit of the nicotinic acetylcholine receptor; can assemble into functionally different acetylcholine receptor channel subtypes [RGD, Feb 2006]

Product images:



Circular map for RR210553