

Product datasheet for **MR221644**

Chrnb4 (NM_148944) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrnb4 (NM_148944) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrnb4
Synonyms:	Acrb-4; Acrb4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR221644 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGGTACGCCCTGCTCCTCGTCTCTGTTCGCTCTGCTTCAGCCTGGGGACTGCCGCCTGGCCA
 ACGCAGAGGAGAAGCTGATGGATGATCTCTGAACAAAACCCGCTACAACAACCTGATCCGCCAGCCAC
 CAGCTCCTCCAGCTCATCTCCATCCGCTGGAGCTACTGTCCAGCTCATCAGTGTGAATGAGCGA
 GAACAGATCATGACCACCAGCATCTGGCTGAAACAGGAATGGACTGACTACCGCTGGCCTGGAACAGCT
 CCTGCTATGAAGGGGTGAACATTCTGAGGATTCCTGCAAAGCGAGTCTGGTTGCCTGACATCGTGTGTA
 CAACAATGCCGATGGGACCTATGAGGTGTCTGTCTACCAACGTGATCGTGCCTTCCAACGGCAGCATC
 CAGTGGCTGCCCCCTGCCATCTACAAGAGTGCCTGCAAGATAGAGGTGAAGCACTTCCCTTCGACCAGC
 AGAACTGCACCCTCAAATTCGCTCCTGGACCTATGACCACACAGAGATTGACATGGTCTTAAATCACC
 CACAGCCATCATGGATGACTTTACCCAGCGGTGAATGGGACATTGTGGCCCTCCGGGTGAAGGACA
 GTGAACCCACAGGACCCAGCTATGTGGAGGTGACCTATGACTTCATCATCAAGCGCAAGCCACTTCT
 ACACCATCAATCTGATCATCCCTTGTGTCTCATCACGTGCTGGCTATCCTGGTCTTACCTGCCCTC
 CGACTGTGGGGAGAAGATGACGCTCTGCATCTCAGTGTGCTGGCACTCACATTCTCTGCTGCTCATC
 TCCAAGATCGTGCTCCACCTCCCTTGACATCCCTCATTGGCAAGTACCTCTTGTTCACCATGGTGC
 TGGTCACTTTTCCATCGTCACCACTGTGTGTCTCAATGTGCACCACCGTTCACCCAGCACTCACAC
 CATGGCATCCTGGGTCAAGGAGTCTCCTGCACAAGTGCACCTTCTTTCATGAAGCGCCCTGGT
 CTGGAAGTCAAGCCCGCCAGGGTCCCTCATTCCAGCCAGCTGCACTTGACCACAGCTGAAGTACGTCCA
 CCTCTGCCTTAGCCCCAGCAGCCATCCAACCTCTATGGGAATCCATGTACTTTGTGAACCTGTCCC
 TGCCACTCCTAAGTCTGCAGTCACTCCACACGGCAGGCTCCCGAGGATGCCCGGTGAGGTCTCT
 GGGAGGTTCCGGCAAGATCTACAGGAAGCATTAGAGGGCGTCAGCTTTCATCGCACAGCATTGGAGAGTG
 ATGATCGAGATCAGAGTGTATCGAGGACTGAAATTCGTCGCAATGGTGTGTCGACCGCCTGTTCTGTG
 GGTGTTCTGATGTGTATTCTGGGCACCATGGGGCTTCTCTGCCACCCCTCTCCAGATCCACGCA
 CCTCCAAGGGCCTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR221644 protein sequence
 Red=Cloning site Green=Tags(s)

MRGTPLLLVSLFALLQPGDCRLANAEEKLMDLLNKTRYNNLIRPATSSSQLISIRLELSLSQLISVNER
 EQIMTTISIWLKQEWTDYRLAWNSSCYEGVNILRIPAKRVWLPDIVLYNNADGTIEVSVYTNVIVRSNGSI
 QWLPPAIYKSACKIEVKHFQFDQONCTLKFRSWTYDHTEIDMVLKSPAIMDDFTPSGEWDIVALPGRRT
 VNPQDPSYVDVYDFIIRKPLFYINLIIPCVLITSLAILVFLYLPSDCGEKMTLCISVLLALTFLLLI
 SKIVPPTSLDIPLIGKYLFTMVLVTFIVTTVCVLNVHHRSPSTHTMASWVKECFHLKLPFLFMKRP
 LEVSPARVPHSSLHLTTAEATSTALGPSSPSNLYGNSMYFVNPVPATPKSAVSSHTAGLPRDARLRSS
 GRFRQDLQEALEGVSFIAQHLESDDRDQSVIEDWKFVAMVVDRLFLWVIVICILGTMGLFLPPLFQIHA
 PSKGL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_148944

ORF Size: 1488 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_148944.4](#), [NP_683746.1](#)

RefSeq Size: 3486 bp

RefSeq ORF: 1488 bp

Locus ID: 108015

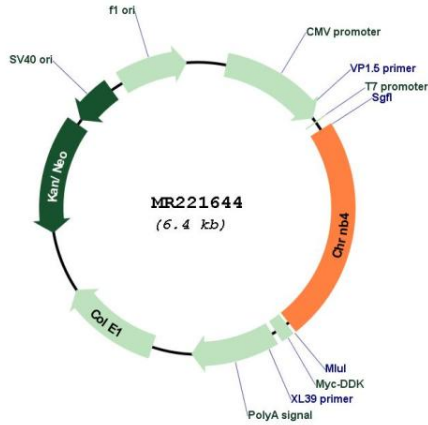
UniProt ID: [Q8R493](#)

Cytogenetics: 9 B

MW: 55.8 kDa

Gene Summary: After binding acetylcholine, the AChR responds by an extensive change in conformation that affects all subunits and leads to opening of an ion-conducting channel across the plasma membrane.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR221644