

Product datasheet for **MG221644**

Chrnb4 (NM_148944) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrnb4 (NM_148944) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chrnb4
Synonyms:	Acrb-4; Acrb4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221644 representing NM_148944
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGGGTACGCCCTGCTCCTCGTCTCTGTTCGCTCTGCTTCAGCCTGGGGACTGCCGCCTGGCCA
 ACGCAGAGGAGAAGCTGATGGATGATCTCTGAACAAAACCCGCTACAACAACCTGATCCGCCAGCCAC
 CAGCTCCTCCCAGCTCATCTCCATCCGCTGGAGCTATCACTGTCCAGCTCATCAGTGTGAATGAGCGA
 GAACAGATCATGACCACCAGCATCTGGCTGAAACAGGAATGGACTGACTACCGCCTGGCCTGGAACAGCT
 CCTGCTATGAAGGGGTGAACATTCTGAGGATTCCTGCAAAGCGAGTCTGGTTGCCTGACATCGTGTGTA
 CAACAATGCCGATGGGACCTATGAGGTGTCTGTCTACCAACAGTATCGTGCCTTCCAACGGCAGCATC
 CAGTGGCTGCCCCCTGCCATCTACAAGAGTGCCTGCAAGATAGAGGTGAAGCACTTCCCTTCGACCAGC
 AGAACTGCACCCTCAAATTCGCTCCTGGACCTATGACCACACAGAGATTGACATGGTCTTAAATCACC
 CACAGCCATCATGGATGACTTTACCCAGCGGTGAATGGGACATTGTGGCCCTCCGGGTGGAAGGACA
 GTGAACCCACAGGACCCAGCTATGTGGAGGTGACCTATGACTTCATCATCAAGCGCAAGCCACTCTTCT
 ACACCATCAATCTGATCATCCCTTGTGTCTCATCACGTGCTGGCTATCCTGGTCTTCTACCTGCCCTC
 CGACTGTGGGGAGAAGATGACGCTCTGCATCTCAGTGTGCTGGCACTCACATTCTTCTGCTGCTCATC
 TCCAAGATCGTGCTCCACCTCCCTTGACATCCCTCATTGGCAAGTACCTCTTGTTCACCATGGTGC
 TGGTCACTTTTCCATCGTCACCACTGTGTGTCTCAATGTGCACCACCGTTCACCCAGCACTCACAC
 CATGGCATCCTGGGTCAAGGAGTGTCTCCTGCACAAGTGCACCTTCTTTCATGAAGCGCCCTGGT
 CTGGAAGTCAGCCCCCAGGGTCCCTCATTCCAGCCAGCTGCACTTGACCACAGCTGAAGCTACGTCCA
 CCTCTGCCTTAGCCCCCAGCAGCCATCCAACCTCTATGGGAATCCATGTACTTTGTGAACCCCTGTCCC
 TGCCACTCCTAAGTCTGCAGTCAGCTCCACACGGCAGGCTCCCGAGGATGCCCGGTGAGGTCTCT
 GGGAGGTTCCGGCAAGATCTACAGGAAGCATTAGAGGGCGTCAGCTTCATCGCACAGCATTTGGAGAGTG
 ATGATCGAGATCAGAGTGTATCGAGGACTGAAAATTCGTCGCAATGGTGTGTCGACCGCCTGTTCTGTG
 GGTGTTCTGTGATTGTGTATTCTGGGCACCATGGGGCTTCTCTGCCACCCCTCTTCCAGATCCACGCA
 CCTCCAAGGGCCTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

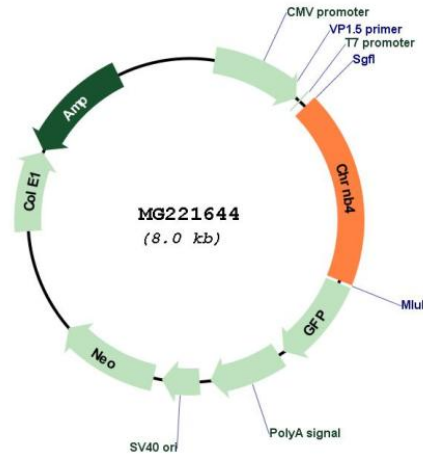
>MG221644 representing NM_148944
 Red=Cloning site Green=Tags(s)

MRGTPLLLVSLFALLQPGDCRLANAEEKLMDDLNLKTRYNNLIRPATSSSQLISIRLELSLSQLISVNER
 EQIMTTISIWLKQEWTDYRLAWNSSCYEGVNILRIPAKRVWLPDIVLYNNADGTYEVSVYTNVIVRSNGSI
 QWLPPAIYKSACKIEVKHFPFDQQNCTLKFRTYDHTIDMVLKSPAIMDDFTPSGEWDIVALPGRRT
 VNPQDPSYVDVYDFIIRKPLFYINLIIPCVLITSLAILVYLPSDCGEKMTLCISVLLALTFLLLI
 SKIVPPTSLDIPLIGKYLLFTMVLVTFIVTTVCVLNVHHRSPSTHTMASWVKECFHKLPTFLFMKRP
 LEVSPARVPHSSQLHLTTAEATSTALGPSSPNLYGNSMYFVNPVTPATPKSAVSSHTAGLPRDARLRSS
 GRFRQDLQEALEGVSFIAQHLESDDRDQSVIEDWKFVAMVVDRLFLWVIVICILGTMGLFLPPLFIHA
 PSKGL

TRTRPLE - GFP Tag - V

Restriction Sites:

Sgfl-MluI

Plasmid Map:


ACCN: NM_148944

ORF Size: 1485 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

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]