

## Product datasheet for **MG208044**

### Chrnb1 (NM\_009601) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Chrnb1 (NM_009601) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Chrnb1
Synonyms:	Achr-2; Acrb
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG208044 representing NM\_009601  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCCTTAGGGCGCTGCTTCTGCTTCTAGGGTACTCGGGACGCCCTCGCCCCAGGCGCCCGGGT  
 CGGAAGCCGAAGGCCAACTGATTAAGAACTTTCTCCAACATATGATAGCTCGGTGAGGCCGGCGGGGA  
 GGTGGGAGACCGCGTCGGGGTCAGCATCGGCCTCACCTGGCGCAACTCATCAGCCTGAACGAGAAGGAT  
 GAAGAAATGAGCACAAAGGTGACTTAGACCTGGAGTGGACCGACTACAGGTTAAGCTGGGACCCCGCAG  
 AACATGATGGCATCGATTCTCTCCGCATCACTGCTGAATCCGTTTGGCTCCCTGATGTGGTCTGCTGAA  
 CAACAATGACGGAAATTCGACGTTGCCCTGGACATCAATGTCGTGGTATCTTTGAGGGCTCTGTGCGC  
 TGGCAACCCCTGGCCTGTACCGCAGCAGCTGCAGCATCCAGGTCACCTACTTCCCCTTTGACTGGCAGA  
 ACTGCACCATGGTGTAGTTTCTACAGCTATGACAGCTCTGAGGTCAGCCTGAAGACGGGCCTGGATCC  
 TGAAGGAGAGGAGAGGCAGGAAGTCTACATTCATGAAGGGACCTTCATTGAGAATGGCCAATGGGAGATT  
 ATCCACAAACCTTCTAGGTTAATCCAACCTCCAGGGGATCAGAGAGGTGGGAAGGAAGGGCATCATGAGG  
 AAGTTATCTTCTATCTCATTATTCGCGCGGAAGCCTCTCTTCTACCTGGTCAACGTCATTGCCCATGCAT  
 CCTCATACGCTCCTGGCCATCTTTGTCTTCTACCTCCCACCAGATGCAGGAGAGAAGATGGGGCTCTCC  
 ATCTTTGCCCTGCTGACGCTCACTGTGTTCTTGTCTGCTGTTGGCCGACAAAGTGCCTGAGACCTCCCTGG  
 CGGTGCCCATCATTATCAAGTACCTCATGTTTACCATGGTCTTGTACCTTCTCCGTTATCCTTAGTGT  
 TGTGGTCTCAACCTGCATCATCGCTCACCCACACCCACAAATGCCCTTTGGGTCCGCCAGATCTTC  
 ATTCACAAGCTCCCTCCATACCTGGGTCTGAAGAGGCCAAACCCGAGAGAGACCAACTCCCTGAACCAC  
 ATCACTCTCTTTCTCAAGTAGTGGCTGGGGCAGAGGAAGTGAATATTTTCATCCGGAAGCCTTCAAG  
 TGATTTTCTTTTCCCTAACTTAACAGGTTTTCAGCCTGAATCATCTGCCCGGACCTGCGACGATTTATC  
 GATGGTCAACCCGGGCTGTAGGTCTGCCTCAGGAGCTACGAGAGGTCAATTCCTCAATCAGCTACATGG  
 CCCGACAGCTTACGGAACAGGAGGACCAGCAGCACTGAAGGAGGACTGGCAGTTTGTGGCCATGTTGT  
 GGACCGTCTTTTCTGTGGACATTCATCGTTTTTACAAGCGTCGGGACCCCTAGTCATTTTCTAGATGCC  
 ACGTACCATTTGCCCTCCTGAACCTTTCCCT

**ACGCGTACGCGGCCGCTCGAG** - GFP Tag - GTTTAA

**Protein Sequence:**

>MG208044 representing NM\_009601  
 Red=Cloning site Green=Tags(s)

MALGALLLLLVGLGTPLAPGARGSEAEGQLIKKLFSNYDSSVRPAREVGDVRVGSIGLTLAQLISLNEKD  
 EEMSTKVYLDLEWTDYRLSWDPAEHDGIDSLRITAESVWLPDVLNNDGNFDVALDINVVVSEFGSVR  
 WQPPGLYRSSCSIQVYFPFDWQNCMTMVFSSYSYDSSEVSLKTLGLDPEGEERQEVYIHEGTFIENGQWEI  
 IHKPSRLIQLPGDQRGGKEGHHEEYFYLIIRRKPLFYLVNVIAPCILITLLAIFVYLPDAGEKMGLS  
 IFALLTLTVFLLLADKVPETSLAVPIIKYLMFTMVLVTFVILSVVVLNLHHRSPHHTQMPFVWRQIF  
 IHKLPPYLGLKRPKPERDQLPEPHSLSPSSGWGRGTDEYFIRKPPSDFLFPKLNRFQPESSAPDLRRFI  
 DGPTRAVGLPQELREVISSISYMARQLQEEDHDALKEDWQFVAMVVDRLFLWTFIVFTSVGTLVIFLDA  
 TYHLPPPEPFP

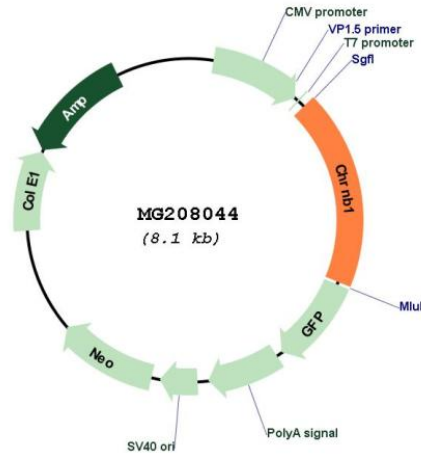
**TRTRPLE** - GFP Tag - V

**Restriction Sites:**

Sgfl-MluI



Plasmid Map:



ACCN: NM\_009601

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\\_009601.3](#), [NP\\_033731.2](#)

**RefSeq Size:** 2186 bp

**RefSeq ORF:** 1506 bp

**Locus ID:** 11443

**UniProt ID:** [P09690](#)

**Cytogenetics:** 11 42.87 cM

**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]