

Product datasheet for **MR209587**

Chrna4 (NM_015730) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrna4 (NM_015730) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrna4
Synonyms:	Acra-4; Acra4; EBN1; ENFL1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209587 representing NM_015730
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGATCGGGGCTCCGGGGCCGCCGCCGCTGCTGCTCCTGCCGCTCCTGCTGCTCTTAGGGACCG
 GCCTTTGCCTGCTAGCAGCCACATAGAGACCCGGGCCATGCGGAGGAGCGGCTCCTGAAGAGACTCTT
 CTCTGGCTACAACAAGTGGTCTCGGCCAGTAGCCAATATCTCAGATGTGGTCCTTGTCGGCTTTGGCTTG
 TCGATTGCTCAGCTCATTGATGTGGATGAGAAAAACCAGATGATGACGACCAACGTGTGGGTGAAGCAGG
 AGTGGCATGACTACAACTGCGCTGGGACCCTGGTACTACGAGAATGTACCTCCATCCGCATCCCATC
 TGAACTCATCTGGAGGCCTGACATCGTCTCTACAACAACGCGGACGGGGACTTTGCAGTCACCCACCTA
 ACCAAAGCCACCTGTTCTATGATGGGCGTGTGCAGTGGACACCCCGGCCATCTATAAGAGCTCCTGCA
 GCATCGACGTACCTTCTCCCTTCGACCAGCAGAAGTACCATGAAGTTTGGGTCTGGACCTACGA
 CAAGGCCAAGATTGACTTGGTGTGAGCATGCACAGCCGTGTGGACCAACTGGACTTCTGGGAAAGTGGGGAG
 TGGGTCAATTGTGGATGCCGTGGGACCTACAACACCAGGAAGTGAATGCTGTGCCGAGATCTATCCTG
 ACATCACCTACGCCTTATCATCCGCCGACTGCCACTGTTCTACACCATCAACCTTATCATCCCGTGCCCT
 GCTCATCTCCTGCCTCACCGTGTGGTCTTCTATCTGCCCTCGGAGTGGCGGAGAAAGTACGCTGTGC
 ATCTCGGTGCTGCTTCTCTCACCGTCTTCTGCTGCTCATCACCGAGATCATCCCGTCCACCTCGCTGG
 TCATCCCGCTCATCGGCGAGTACCTGCTTACCATGATCTTCGTACCCCTCTCCATTGTCATCACGGT
 CTTGCTGCTCAATGTACACCACCGCTCACACGCACACACCATGCCCGCTGGGTGCCGAGAGTCTTC
 CTGGACATTGTGCCCCGCTCCTCTTATGAAGCGCCATCTGTGGTCAAAGACAACGCGGAGACTTA
 TCGAATCCATGCACAAGATGGCCAACGCCCTCGTTTCTGGCCAGAGCCTGAGAGTGAAGTGGCCGATCTT
 GGGTGACATCTGCAACCAAGGCCTGTCACTGCCCAACTTTCTGCAACCGCATGGACACAGCAGTTCGAG
 ACCCAGCTACATGCAGTCCACCTCCCAAGGTCCTGACTTGAAGACATCAGAGTTGAGAAGGCCA
 GTCCTGTCCATCACCTGGCTCTGTGACCCACCAATAGCAGTGGGGCCCCAGTGTCTCAAAGCCAG
 GTCCCTGAGCGTCCAGCATGTGCCAGCTCCAGGAAGCAGCCGAGGGCAGCATCCGCTGCCGCTCGG
 AGTATCCAGTACTGTGTTCCCAAGATGGAGTGTCTCCCTGACTGAGAGCAAGCCACTGGCTCCCCAG
 CCTCCCTGAAGACCCGCTCCATCCAGCTTCCAGTGTGACAGCAGCTCTCCATGCAATGCACATGCAA
 GGAACCATCTCCTGTGTCCCCATCACTGTGCTCAAGGCTGGAGGCACCAAGCACCTCCCAACACCTG
 CCCCTGTACCAGCCCTGACACGGCAGTAGAAGGCGTCCAGTACATTGCAGACCACCTCAAGGCAGAAG
 ACACAGACTTCTCGGTGAAGGAGGACTGGAAATACGTGGCCATGGTCAATTGACCGAATCTTCTCTGGAT
 GTTCATCATTGTCTGCCTTCTGGGCACTGTGGGACTCTTCTGCCTCCATGGTTGGCTGGTATGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209587 representing NM_015730
 Red=Cloning site Green=Tags(s)

MEIGGSGAPPLLLLPLLLLGTGLLPASSHIETRAHAERLLKRLFSGYNKWSRPVANIISDVVLVRFGL
 SIAQLIDVDEKNQMMTTNVWVKQEWHDYKLRWDPGDYENVTSIRIPSEL IWRPDI VL YNNADGDFAVTHL
 TKAHLFYDGRVQWTPPAIYKSSCSIDVTFPPFDQQNCTMKFGSWYDKAKIDL VSMHSRVDQLDFWESGE
 WVIYDAVGTYNTRKYECACAEIYPDITYAFIIRRLPLFYINLIIPCLLISCLTVLVFYLPSECGEKVTL
 ISVLLSLTVFLLITEIIPSTSLVIPLIGEYLLFTMIFVTL SIVITVFLNVHHRSPRTHMPAWVRRVF
 LDIVPRLLFMKRPSVVKDNCRRLLIESMHKMANAPRFWPEPESEPGILGDI CNQGLSPAPTF CNRMDTAVE
 TQPTCRSPSHKVPDLKTSEVEKASPCSPGSGCHPPNSSGAPVL IKARSLSVQHVPSSQEA AEGSIRCRSR
 SIQYCVSQDGAASLTESKPTGSPASLKRPSQLPVSDQTS PCKCTCKEPSVPSPITVLKAGGTKAPPQHL
 PLSPAL TRAVEGVQYIADHLKAEDTDFSVKEDWKYVAMVIDRIFLWFMFIIVCLLGTVGLFLPPWLAGMI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9014_d05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_015730

ORF Size: 1887 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_015730.5](#), [NP_056545.3](#)

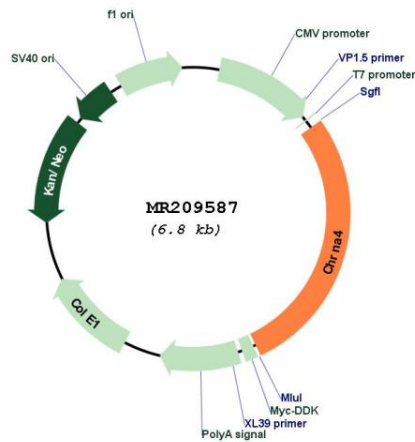
RefSeq Size: 4509 bp

RefSeq ORF: 1890 bp

Locus ID: 11438
 UniProt ID: [O70174](#)
 Cytogenetics: 2 103.54 cM
 MW: 70.8 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 permeable to sodium ions.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209587