

Product datasheet for **MR208228**

Chrna2 (NM_144803) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrna2 (NM_144803) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrna2
Synonyms:	Acra-2; Acra2; BC011490
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208228 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCCCCCTCCCATCTGCTTTCCAGTCTCGGATACATCTTTATCTCTGGTGTCTGCTTCTGATGCCAG
 CAGTGTTGGCCCAGCAAGGCTCGCACACCCATGCCGAGGACCGCTGTTCAAACACCTCTTTGGAGGCTA
 CAATCGCTGGGCACGGCCAGTGCCCAACACTTCCGATGTGGTCATCGTGGCTTTGGACTATCCATTGCA
 CAGCTCATAGATGTGGATGAGAAGAATCAAATGATGACCACCAATGTCTGGCTAAAGCAGGAATGGAATG
 ACTACAAGCTGCGCTGGGACCGGCTGAGTTTGGCAACATCACCTCCCTCCGCTCCCCTCAGAGATGAT
 CTGGATCCAGACATTGTTCTCTACAACAATGCAGACGGGGAGTTTGGGTGACCCACATGACCAAGGCC
 CACCTCTTCTTCCGCGCACTGTGACTGGTGCCCCAGCCATCTACAAGAGCTCTGCAGCATCGACG
 TGACTTTCTTCCCTTCCAGCAGAACTGCAAGATGAAGTTTGGCTCCTGGACATACGACAAGGCCAA
 GATCGACTGGAGCAGATGGAGCGGACGGTGGACCTGAAGGACTACTGGGAGAGCGGCGAGTGGCCATT
 ATCAACGCCACCGGAACCTATAACAGCAAGAAGTACGACTGCTGCGCGGAGATCTACCCCGACGTACCT
 ACTACTTCGTTATCCGCCGGCTGCCGCTGTTCTACACCATCAACCTCATTATCCCGTGCCTGCTCATCTC
 CTGCCTCACCGTCTCGTGTCTACTTGCCTCTGAGTGTGGAGAGAAGTACAGCTGTGCATCTCGGTG
 CTGCTCTCCCTCACTGTCTTCTGCTGCTCATCACAGAAATATCCCATCCACCTCACTGGTCATCCAC
 TCATCGGCGAGTACCTGCTCTTACCATGATCTTCGTCACCCTCTCTATTGTGATCACAGTCTTCGTGCT
 CAATGTCCACCACCGTCCCTAGCACGCACAACATGCCAACTGGGTGAGGGTGGCCCTGCTAGGCCGG
 GTGCCCCGGTGGCTGATGATGAATCGGCCCTGCCGCCATGGAGCTCCATGGCTCTCCAGTCTGAAGC
 TCAGCCCCACTTATCATTGGCTGGAGACCAACATGGATGCTGAAGAAAGGAGGAGACAGAGGAAGAGGA
 GGAGGAGGAAGAAGATGAAACATATGTATGTGTGCAAGGCTCCAGACTCTCCATGGGTGCTCCTCTAT
 GGCCATGGCAGCCTGCATCTGAGGGCCATGGGCCCTGAGGCCAAGACTCCATCCAGGCTAGTGAGATCC
 TGCTGTCACTCAAATACAGAAAGCACTAGAAGGTGTACACTACATTGCTGACCACCTGAGGTCTGAGGA
 TGCTGACTCTTCGGTGAAGGAAGATTGGAAGTATGTGGCCATGGTGGTAGACCGGATCTTCTCTGGCTG
 TTCATTATCGTCTGCTTCTGGGACCATCGGGCTCTTCTCCCTCCGTTCTGGCTGGAATGATC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208228 protein sequence
 Red=Cloning site Green=Tags(s)

MAPSHPAFQFWIHLYLWCLLLMPAVLAQQGSHTHAEDRLFKHLFGGYNRWARVPNPNTSDVVIVRFLSIA
 QLIDVDEKNQMMTTNVWLKQEWNDYKLRWDPAEFGNITSLRVPSEMIWIPDIVLYNNADGEFAVTHMTKA
 HLFFTGTVHWVPPAIYKSSCSIDVTFPPFDQONCKMKFGSWTYDKAKIDLEQMERTVDLKDYWESGEWAI
 INATGTYNSSKKYDCCAEIYPDVYYFVIRRLPLFYTINLIIPCLLISCLTVLVFVLPSECGEKITLCISV
 LLSLTVFLLLITEIIPSTSLVIPLIGEYLLFTMIFVTLISIVITVFLNVHHRSPSTHNMPNWRVALLGR
 VPRWLMNRPLPMEHLGSPGLKLSPTYHWLETNMDAEEEREETEEEEEEEDENICMCAGLPDSSMGVLY
 GHGSLHLRAMGPEAKTPSQASEILLSPQIQKALEGVHYIADHLRSEDADSSVKEDWKYVAMVVDRIFLWL
 FIIVCFLGTIGLFLPPFLAGMI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_144803

ORF Size: 1539 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_144803.2](#), [NP_659052.1](#)

RefSeq Size: 3527 bp

RefSeq ORF: 1539 bp

Locus ID: 110902

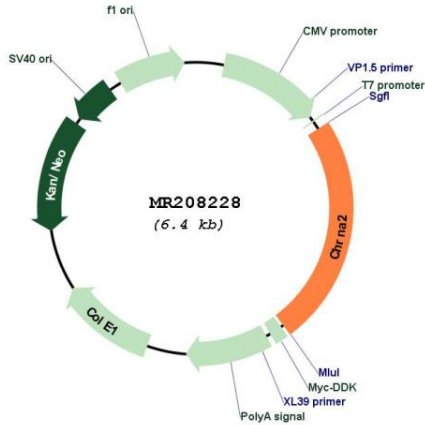
UniProt ID: [Q91X60](#)

Cytogenetics: 14 34.36 cM

MW: 58.7 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 MR208228