

Product datasheet for **RR214926**

Chrna2 (NM_133420) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrna2 (NM_133420) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrna2
Synonyms:	ACHR
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR214926 representing NM_133420
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGACCCTTTCCATTCTGCTCTCCAGTCTCGACACATCTTTATCTCTGGTGTCTCCTTCTGGTGCCAG
 CAGTGTGGACCCAGCAAGGCTCACACACCCATGCTGAGGACCGCCTGTTCAAACACCTGTTGGAGGCTA
 CAATCGCTGGGCACGGCCAGTGCCCAACACTTCTGATGTGGTCATCGTGGCTTTGGATTATCCATTGCT
 CAGCTCATAGATGTGGATGAGAAGAATCAAATGATGACCACCAATGTCTGGCTAAAGCAGGAATGGAATG
 ACTACAAGCTGCGCTGGGACCGGCTGAGTTGGCAATGTACCTCCCTGCGCGTCCCTTTCAGAGATGAT
 CTGGATCCAGACATTGCTCTACAACAATGCAGATGGGGAGTTTGGGTGACCCACATGACCAAGGCT
 CACCTCTTCTCACGGGCACTGTGACTGGTGCCCCAGCCATCTACAAGAGCTCTGCAGCATCGATG
 TGACCTTCTTCCCTTCGACCAGCAGAAGTGAAGTGAAGTTTGGCTCTGGACATATGACAAGGCCAA
 GATCGATCTGGAGCAGATGGAGAGGACAGTGGACCTGAAGGACTACTGGGAGAGTGGCGAGTGGCCATT
 ATCAATGCCACCGAACCTATAACAGTAAGAAGTACGACTGCTGCGCGGAGATCTACCCCGATGTACCT
 ACTACTTTGTGATCCGCCGGCTGCCGCTGTTCTATACCATCAACCTCATCATCCCATGCCTGCTCATCTC
 CTGCCTCACTGTGCTCGTGTCTACCTGCCTTCCGAGTGTGGAGAGAAGTACAGCTGTGCATCTCGGTG
 CTGCTATCTCACTGTCTTCTGCTGCTCATCACGGAGATCATCCCGTCCACCTCGCTGGTCATCCAC
 TCATCGGCGAGTACCTGCTCTTACCATGATCTTTGTACCCTCTCTATCGTTATCACAGTCTTCGTGCT
 CAATGTACACCACCGCTCCCCAGCACCAACATGCCAACGGGTAAAGGTAGCCCTGCTAGGCCGG
 GTGCCCAGGTGGCTGATGATGAACCGGCCCTGCCACCTATGGAGCTCCATGGCTCCCGGATCTGAAGC
 TCAGCCCCTCATACCATTGGCTAGAGACTAACATGGATGCTGGAGAAAGGAGGAGACAGGAAGAGGA
 GGAAGAAGAAGATGAAAACATATGTGTGTGTCAGGCCTTCCAGACTCTTCGATGGGTGCTCTATGGC
 CATGGCGGCTGCATCTGAGAGCCTGGAGCCTGAGACCAAGACTCCATCCAGGCTAGCGAGATTCTGC
 TGTACCTCAAATACAGAAAGCACTAGAAGGTGTACACTACATTGCTGACCGTCTGAGGTCTGAGGATGC
 TGACTCTCGGTGAAGGAAGACTGGAAGTATGTGGCCATGGTGGTAGACCGGATATTCTCTGGCTGTT
 ATTATCGTCTGCTTCTGGGACCATCGGACTCTTCTTCTCCATTCTGGCTGGAATGATC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR214926 representing NM_133420
 Red=Cloning site Green=Tags(s)

MTLSHSALQFWTHLYLWCLLLVPAVL TQQGSHTHAEDRLFKHLFGGYNRWARPVPNTSDVVIVRFLSIA
 QLIDVDEKNQMMTTNVWLKQEWNDYKLRWDPAEFGNVTSLRVPSEMIWIPDIVLYNNADGEFAVTHMTKA
 HLFFTGTVHWVPPAIYKSSCSIDVTFPPFDQONCKMKFGSWTYDKAKIDLEQMERTVDLKDYWESGEWAI
 INATGTYNSSKKYDCCAEIYPDVTYFVIRRLPLFYINLIIPCLLISCLTVLVFYLPSECGEKITLCISV
 LLSLTVFLLLITEIIPSTSLVIPLIGEYLLFTMIFVTL SIVITVFLNVHHRSPSTHNMPNWVRVALLGR
 VPRWLMNRP LPPMELHGSPDLKLSPSYHWLETNMDAGEREEEEEEEDENICVCAGLPDSSMGVLYG
 HGGHLHRAMEPETKTPSQASEILLSPQIQKALEGVHYIADRLRSEDADSSVKEDWKYVAMVVDRIFLWLF
 IIVCFLGTIGLFLPPFLAGMI

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

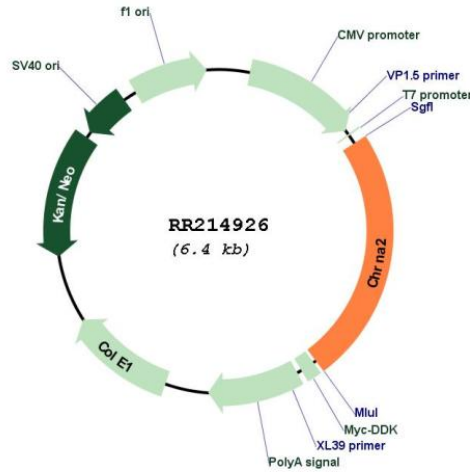
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_133420

ORF Size: 1533 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_133420.1](#), [NP_596911.1](#)

RefSeq Size: 1931 bp

RefSeq ORF: 1536 bp

Locus ID: 170945

UniProt ID: [P12389](#)

Cytogenetics: 15p12

MW: 58.6 kDa

Gene Summary: agonist-binding subunit of neuronal nicotinic acetylcholine receptor [RGD, Feb 2006]