

Product datasheet for **RR202164**

Chrna7 (NM_012832) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Chrna7 (NM_012832) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Chrna7
Synonyms:	BTX; nAChRa7; NARAD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR202164 representing NM_012832
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGTGCGCGGGCGGGGAGGCATCTGGCTGGCTCTGGCCGCGCGCTGCTGCACGTGTCCTGCAAGGCG
 AGTTCCAGAGGAGGCTGTACAAGGAGCTGGTCAAGAACTACAACCGCTGGAGAGCCGGTGGCCAACGA
 CTCGCAGCCGCTCACCGTACTTCTCCCTGAGTCTCCTGCAGATCATGGATGTGGATGAGAAGAACC
 GTTTAAACCACCAACATTTGGCTACAAATGTCTTGGACAGATCACTATTTGCAGTGAACATGTCTGAGT
 ACCCCGGAGTGAAGAATGTTCTGTTTTCCAGATGGCCAGATTTGGAACCAGACATTTCTCCTATAACAG
 TGCTGATGAGCGCTTTGATGCCACGTTCCACCAATGTTTTGGTGAATGCATCTGGGCATTGCCAGTAT
 CTCCTCCAGGCATATCAAGAGCTCCTGCTACATTGACGTTGCTGGTTCCTTTTGTGATGTCAGCAGT
 GCAAATGAAGTTTGGGCTCTGCTATGGAGGGTGGTCACTGGACCTGCAAATGCAAGAGGCAGATAT
 CAGCAGCTATATCCCAACGGAGAATGGGATCTCATGGGAATCCCTGGCAAAGGAATGAGAAGTCTAT
 GAGTGTGCAAAAGAGCCATACCCAGATGTACCTACACAGTAACCATGCGCCGTAGGACACTCTACTATG
 GCCTCAATCTGCTCATCCCTGTGTACTCATTTAGCCCTGGCTCTGCTGGTATTCTTGCTGCCTGCAGA
 CTCTGGAGAGAAAATCTCTTTGGAATAACTGTCTTACTTTCTGACTGTCTTCATGCTGCTTTGGCT
 GAGATCATGCCAGCAACATCTGATTCTGTGCCCTTGATAGCACAATACTCGCCAGCACCATGATCATCG
 TGGGCCTCTGTAGTGGTGACAGTGATTGTGCTGAGATATCACCACCATGACCTGATGGTGGCAAAT
 GCCTAAGTGGACCAGAATCATTCTCTGAACTGGTGTGCATGGTTTCTGCGCATGAAGAGGCCGGAGAG
 GACAAGGTGCGGCCAGCTTGTGACACAAGCCTCGGCGCTGCAGCCTGGCCAGTGTGGAGCTGAGTGCAG
 TGCTGGGCCACCCACCAGCAATGGCAACCTGCTACATTGGCTTCCGAGGCCCTGGAGGCATGCACTG
 TGCCCCAACTCCAGACTCTGGGGTCGATGTGGCCGTTTGGCCTGCTCCCAACACATGATGAGCACCTC
 ATGCACGTTGCACACCCCTCTGATGGGGACCCGACCTGGCCAAGATCCTGGAGGAGTCCGCTACATCG
 CCAACCGCTTCCGCTGCCAGGACGAGAGTGAGGTGATCTGCAGTGAATGGAAGTTTGCAGCCTGCGTGGT
 GGACCGCTTGTGCTCATGGCCTTTTCGGTCTTACCATCATCTGTACCATCGGCATCCTCATGTGACGT
 CCAAATTTGTGGAGGCTGTGTCCAAAGACTTTGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202164 representing NM_012832
 Red=Cloning site Green=Tags(s)

MCGRGGIWLALAAALLHVSLQGEFQRRLYKELVKYNYPLERPVANDSQPLTVYFSLSLQIMDVDEKNQ
 VLTTNIWLQMSWDHYLQWNMSEYPGVKNVRFDPGQIWKPDILLYNSADERFDATFHTNVLVNASGHCQY
 LPPGIFKSSCYIDVRWFPFDVQQCKLKFGSWSYGGWSDLQMQEADISSYIPNGEWDLMGIPGKRNEKFY
 ECCKEYPDVITYVTMRRRLYYGLNLLIPCVLISALALLVFLLPADSGEKISLGITVLLSLTVFMLLVA
 EIMPATSDSVPLIAQYFASTMIIVGLSVVVTIVLRYHHHDPDGGKMPKWTRIIILLNCAWFLRMKRPGE
 DKVRPACQHKPRRCSLASVELSAGAPPTSNGNLLYIGFRGLEGMHCAPTDSGVVCGRLACSPHDEHL
 MHGAHPSDGDPLAKILEEVRYIANRFRQDESEVICSEWKFAACVVDRLCLMAFSVFTIICTIGILMSA
 PNFVEAVSKDFA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_012832

ORF Size: 1506 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_012832.3](#), [NP_036964.3](#)

RefSeq Size: 1509 bp

RefSeq ORF: 1509 bp

Locus ID: 25302

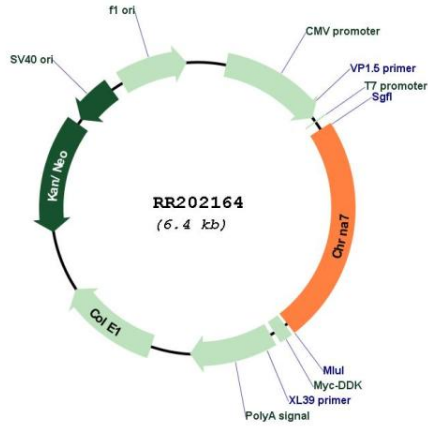
UniProt ID: [Q05941](#)

Cytogenetics: 1q22

MW: 56.5 kDa

Gene Summary: subunit of nicotinic acetylcholine receptor; may mediate nicotine induced increase in tyrosine hydroxylase expression; may play a role in neuroprotection [RGD, Feb 2006]

Product images:



Circular map for RR202164