

Product datasheet for **RR215934**

Cnih3 (NM_001166578) Rat Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cnih3 (NM_001166578) Rat Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cnih3
Synonyms: CNIH-3
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RR215934 representing NM_001166578
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGGCCTTCACTTTTCGCTGCTTTCTGCTACATGCTGTCCCTGGTCTCTGCGCTGCGCTCATCTTCTTCG
CTATCTGGCACATAATCGCCTTCGATGAGCTAAGGACAGATTTCAAGAGTCCCATAGACCAGTGCAACCC
TGTCCATGCGAGGAGCGGCTGAGGAACATCGAACGCATCTGCTTCTTCTGAGAAAGCTGGTGCTGCC
GAGTACTCCATCCACAGCCTCTTCTGCGTCATGTTTCTGTGTGCACAGGAGTGGCTCACCTGGGGCTCA
ATGTTCTCTGCTTTTCTATCACTTCTGGAGGTATTTCCACTGTCCAGCAGATAGCTCAGAACTAGCCTA
CGACCCACCAGTTGCATGAATGCCGACACCTTGAGCTACTGTCAGAAGGAGGCCTGGTGTAAAGCTGGCC
TTCTATCTCTCTCTTCTTCTACTACCTGTACTGCATGATTTACACCTTAGTGAGCTCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR215934 representing NM_001166578
Red=Cloning site Green=Tags(s)

MAFTFAAFCYMLSLVLCALIFFAIWHIIAFDELRTDFKSPIDQCNPVHARERLRNIERICFLLRKLVLP
EYSIHSFLFCVMFLCAQEWLTLGLNVPLLFYHFWRYFHCPADSSSELAYDPPVVMNADTLSYCQKEAWCKLA
FYLLSFFYYLYCMIYTLVSS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

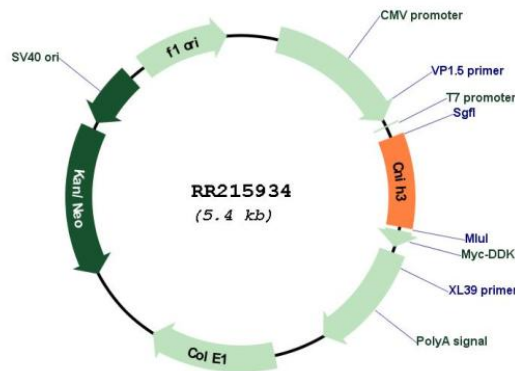


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Cloning Scheme:



Plasmid Map:



ACCN: NM_001166578

ORF Size: 480 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:	<ol style="list-style-type: none">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:	<u>NM_001166578.1, NP_001160050.1</u>
RefSeq Size:	483 bp
RefSeq ORF:	483 bp
Locus ID:	690252
UniProt ID:	<u>D0Q0Y7</u>
Cytogenetics:	13q26
MW:	19 kDa
Gene Summary:	Regulates the trafficking and gating properties of AMPA-selective glutamate receptors (AMPA receptors). Promotes their targeting to the cell membrane and synapses and modulates their gating properties by regulating their rates of activation, deactivation and desensitization. [UniProtKB/Swiss-Prot Function]