

## Product datasheet for RC215357

### Protein cornichon homolog 2 (CNIH2) (NM\_182553) Human Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Protein cornichon homolog 2 (CNIH2) (NM\_182553) Human Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Protein cornichon homolog 2  
**Synonyms:** CNIH-2; Cnil  
**Mammalian Cell Selection:** Neomycin  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**ORF Nucleotide Sequence:** >RC215357 representing NM\_182553  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGCGTTCACCTTCGCCGCTTCTGCTACATGCTCACCTGGTGTGCGCCTCCCTCATCTTCTTTG  
 TCATCTGGCACATCATAGCCTTTGATGAGCTGCGGACCGACTCAAGAACCCATCGACCAGGGGAACCC  
 TGCGGGGCACGCGAGCGTTTAAAAACATCGAACGCATCTGCTGCCTCCTGAGGAAGCTGGTGGTCCCA  
 GAATACTCCATCCACGGCTCTTCTGTCTGATGTTTCTGTGTGCAGCAGAGTGGGTGACCCTGGCCTCA  
 ACATCCCCCTCCTTTTACCACCTCTGGAGGTAATCCACCGTCTGCAGATGGCTCTGAGGTCATGTA  
 TGATGCGGTCTCCATCATGAATGCTGACATTCTCAACTACTGCCAGAAGGAGTCCCTGGTGCAAACCTGCC  
 TTCTACCTGCTCTCCTTCTTATTACCTGTACAGTATGGTTTATACGTTGGTGAGTTTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >RC215357 representing NM\_182553  
 Red=Cloning site Green=Tags(s)  
 MAFTFAAFCYMLTLVLCASLIFFVIWHIIAFDELRTDFKNPIDQGNPARARERLKNIERICLLRKLVP  
 EYSIHGLFCLMFLCAAEWVTLGLNIPLLFYHLWRYFHRPADGSEVMYDAVSIMNADILNYCQKESWCKLA  
 FYLLSFFYYLYSMVYTLVSF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6108\\_a08.zip](https://cdn.origene.com/chromatograms/mk6108_a08.zip)



Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_182553

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:

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\\_182553.3](#)

RefSeq Size: 1399 bp

RefSeq ORF: 483 bp

Locus ID: 254263

UniProt ID: [Q6PI25](#)

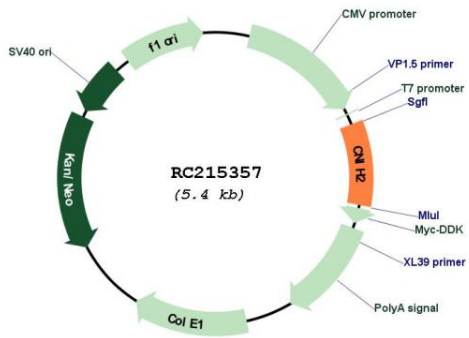
Cytogenetics: 11q13.2

Protein Families: Transmembrane

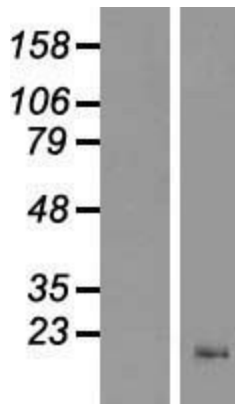
MW: 18.8 kDa

**Gene Summary:** The protein encoded by this gene is an auxiliary subunit of the ionotropic glutamate receptor of the AMPA subtype. AMPA receptors mediate fast synaptic neurotransmission in the central nervous system. This protein has been reported to interact with the Type I AMPA receptor regulatory protein isoform gamma-8 to control assembly of hippocampal AMPA receptor complexes, thereby modulating receptor gating and pharmacology. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012]

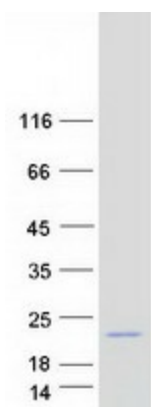
**Product images:**



Circular map for RC215357



Western blot validation of overexpression lysate (Cat# [LY405478]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC215357 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CNIH2 protein (Cat# [TP315357]). The protein was produced from HEK293T cells transfected with CNIH2 cDNA clone (Cat# RC215357) using MegaTran 2.0 (Cat# [TT210002]).