

Product datasheet for **MR227921**

Cnih2 (NM_001302333) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cnih2 (NM_001302333) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cnih2
Synonyms: C; CNIH-2; Cnil
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR227921 representing NM_001302333
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTGTAAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGTGCTGTGCTGAGCGCGAGCGTTTGAAAAACATCGAACGCATCTGCTGCCTCCTGAGGAAGCTGGTGG
 TCCCGGAATATTCATCCACGGCCTCTTCTGTCTGATGTTTCTGTGTGCAGCAGAGTGGGTGACCCTGGG
 CCTCAACATCCCCCTCTTCTACCACCTCTGGAGGTACTTCCACCGTCCTGCGGATGGCTCTGAGGTC
 ATGTATGATGCGGTCTCTATCATGAATGCTGACATCCTCAACTACTGCCAGAAGGAGTCTGGTGCAAAC
 TCGCCTTCTACCTGCTGCCTTCTTATTACCTGTACAGTATGGTTTATACGTTGGTGAGCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR227921 representing NM_001302333
 Red=Cloning site Green=Tags(s)

MCCAERERLKNIERICLLRKLVPPEYSIHGLFCLMFLCAAEWTLGLNIPLLFYHLWRYFHRPADGSEV
 MYDAVSIMNADILNYCQKESWCKLAFYLLSFFYYLYSMVYTLVSF

TRTRPLE**QKLISEEDLA**NDILDYKDDDDKV

Restriction Sites: SgfI-MluI


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Cloning Scheme:



ACCN: NM_001302333

ORF Size: 345 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.

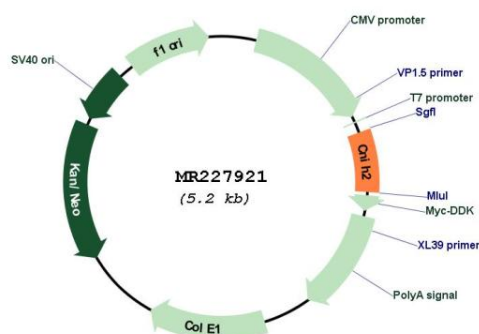
Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_001302333.1](#), [NP_001289262.1](#)

RefSeq Size: 1387 bp

RefSeq ORF:	348 bp
Locus ID:	12794
Cytogenetics:	19 A
MW:	14.2 kDa
Gene Summary:	This gene encodes a protein that is an auxiliary subunit of the ionotropic glutamate receptor of the AMPA subtype. This protein is similar to a Drosophila protein involved in anterior-posterior and dorsal-ventral patterning. Cnih2 conditional knockout mice exhibit reduced AMPA receptor synaptic transmission in the hippocampus. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Oct 2014]

Product images:



Circular map for MR227921