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Product datasheet for RC202120

CNIH3 (NM_152495) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNIH3 (NM_152495) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNIH3
Synonyms:	CNIH-3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)

ORF Nucleotide Sequence:

>RC202120 ORF sequence
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCCTTCACTTTCGCTGCGTTCTGCTACATGCTGTCTCTGGTGCTGTGCGCTGCGCTCATCTTCTTCG
CCATCTGGCACATAATTGCCTTTGATGAGTTAAGGACAGATTTTAAGAGCCCCATAGACCAGTGCAATCC
TGTTCATGCGAGGGAACGGTTGAGGAACATCGAGCGCATCTGCTTCCTTCTGCGAAAGCTGGTGCTGCCA
GAATACTCCATCCATAGCCTCTTCTGCATTATGTTCCTGTGTGCGCAAGAGTGGCTCACGCTGGGGCTGA
ATGTCCCTCTACTTTTCTATCACTTCTGGAGGTATTTCCACTGTCCAGCAGATAGCTCAGAACTAGCCTA
CGACCCACCGGTGGTCATGAATGCCGACACTTTGAGTTACTGTCAGAAGGAGGCCTGGTGTAAGCTGGCC
TTCTATCTCCTCTCCTTCTTCTACTACCTTTACTGCATGATCTACACTTTAGTGAGCTCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC202120 protein sequence
Red=Cloning site Green=Tags(s)

MAFTFAAFCYMLSLVLCAALIFFAIWHIIAFDELRTDFKSPIDQCNPVHARERLRNIERICFLLRKLVLP
EYSIHSLFCIMFLCAQEWLTLGLNVPLLFYHFWRYFHCPADSSELAYDPPVVMNADTLSYCQKEAWCKLA
FYLLSFFYYLYCMIYTLVSS

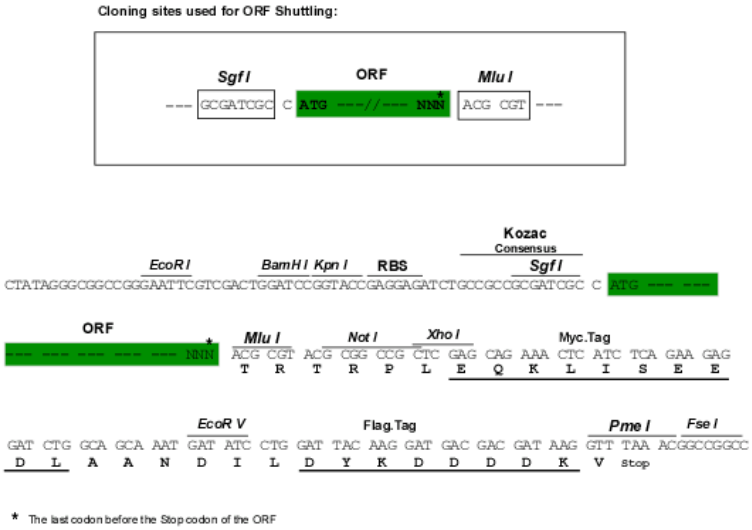
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6323_h01.zip

View online »

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_152495

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.

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

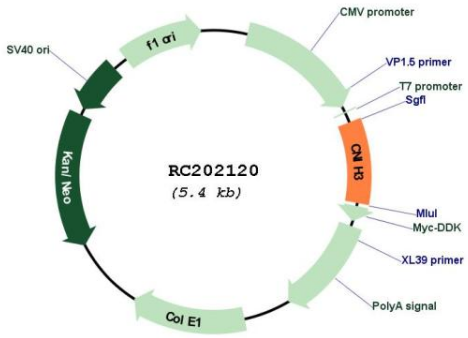
RefSeq: NM_152495.2

RefSeq Size: 2372 bp

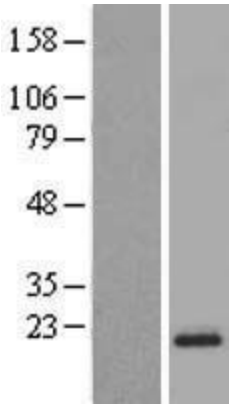
RefSeq ORF: 483 bp

Locus ID:	149111
UniProt ID:	Q8TBE1
Cytogenetics:	1q42.12
Domains:	Cornichon
Protein Families:	Transmembrane
MW:	19 kDa
Gene Summary:	Regulates the trafficking and gating properties of AMPA-selective glutamate receptors (AMPARs). 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]

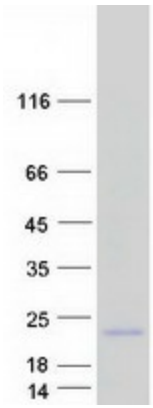
Product images:



Circular map for RC202120



Western blot validation of overexpression lysate (Cat# [LY407502]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC202120 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CNIH3 protein (Cat# [TP302120]). The protein was produced from HEK293T cells transfected with CNIH3 cDNA clone (Cat# RC202120) using MegaTran 2.0 (Cat# [TT210002]).