

Product datasheet for RC235952

CNIH4 (NM_001277200) Human Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: CNIH4 (NM_001277200) Human Tagged ORF Clone
Tag: Myc-DDK
Symbol: CNIH4
Synonyms: CNIH-4; CNIH2; HSPC163
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >RC235952 representing NM_001277200
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGAGGCGGTGGTTCGTCCTTCTCTCTCCTCGATTGTTGCGCGCTCATCTTCCTCTCGGTCTACTTCA
 TAATTACATTGTCTGATTTAGAATGTGATTACATTAATGCTAGATCATGTTGCTCAAATAAACAAGTG
 GGTAATCCAGAATTGATTGGCCATACCATTGTCCTGTATTACTGCTCATGTCATTGCACTGGTTCATC
 TTCTTCTCAACTTACCTGTTGCCACTTGAATATATATCGATACATTATGGTGCCGAGTGGTAACATGG
 GAGTGTGGTATCCAACAGAAATACACAATCGAGGGCAGCTGAAGTACACATGAAAGAAGCCATGATCAA
 GCTTGGTTTCCACTTGCTCTGCTTCTTTCATGTATCTTTATAGTGGTAGCAACTGCCCTTGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC235952 representing NM_001277200
 Red=Cloning site Green=Tags(s)

MEAVVVFVSLLDCCALIFLSVYFIITLSDLECDYINARSCSKLNKWIPELIGHTIVTVLLMLSLHWFI
 FLLNLPVATWNIYRYIMVPSGNMGVDPTEIHNRLKSHMKEAMIKLGFHLLCFFMYLYSGSNPC

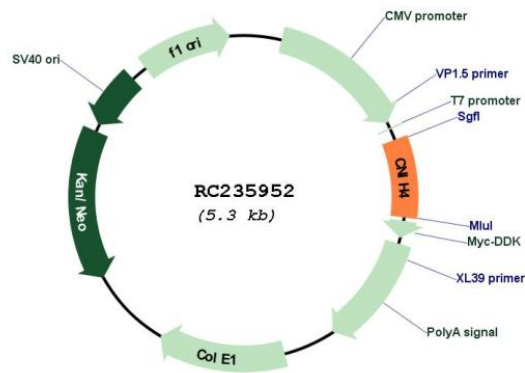
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI



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Cloning Scheme:

Plasmid Map:

ACCN:

NM_001277200

ORF Size:

411 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_001277200.2</u>
RefSeq Size:	905 bp
RefSeq ORF:	414 bp
Locus ID:	29097
Cytogenetics:	1q42.11
Protein Families:	Transmembrane
MW:	16.2 kDa
Gene Summary:	Involved in G protein-coupled receptors (GPCRs) trafficking from the endoplasmic reticulum to the cell surface; it promotes the exit of GPCRs from the early secretory pathway, likely through interaction with the COPII machinery (PubMed:24405750).[UniProtKB/Swiss-Prot Function]