

Product datasheet for **RC207541**

CNOT4 (NM_001008225) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNOT4 (NM_001008225) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CNOT4
Synonyms:	CLONE243; NOT4; NOT4H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RC207541 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTCGCAGTCTGATGCGAAGGAAGACCCTGTGGAGTGCCCTCTTTCATGGAGCCCTGGAGATAG
 ATGATATCAACTTTTCCCTTGACCTGTGGCTACCAGATTTGCCGATTTGTTGGCATCGAATTCGCAC
 TGATGAAAATGGGCTTTGTCTGCATGTAGAAAGCCATATCCAGAAGACCCAGCAGTTTATAAAACCACTC
 TCCCAGGAAGAGCTGCAAAGGATAAAGAATGAGAAAAACAGAAACAAAATGAGAGAAAAACAGAAAATAT
 CAGAAAATCGCAAACATTTGGCTAGTGTACGTGTCTACAAAAAACCTCGTCTTTGTTGTAGTTTATC
 TCAGCGCTAGCAGACCCAGAGGTTTTAAAAACGACCAGAATATTTTGGGAAGTTTGGTAAAAACATAAA
 GTTGTCAATAATAGCACATCATATGCAGGCTCACAGGGTCCAAGTCCAGTGCTTATGTAACCTATA
 TCCGGTCAGAAGACGCTCTCAGAGCCATACAGTGTGTCAACAATGGTAGTAGATGGCAGAACACTTAA
 GGCATCTCTAGGTACAACAAAATACTGCAGTACTTCTTAAAGAATATGCAGTGTCCAAAACCTGACTGC
 ATGTATCTTCATGAATTTGGGGATGAGGCGGCCAGCTTCAAAAAAGAGGAAATGCAGGCGGGTAAACACC
 AAGAATATGAACAGAAGCTACTTCAAGAATTATATAAAATTAATCCCAATTTTCTTCAGCTATCTACGGG
 TTCAGTTGATAAAAAAAGAACAAGTGACACCACTGCAGAGCCCATGACAAAACCTTCAGATTCTCTC
 AGTATAGGGAACGGTGATAATCCCAGCAGATATCTAACAGTGATACGCCTTCACCACCCTGGTTTGT
 CAAAATCCAATCCAGTCATCCCCATCAGTTCATCCAATCACAGTGCACGGTCCCCTTTTGAAGGGGAGT
 AACAGAGTCACAGTCGTTATTCTCAGACATTTTCGCCATCCCAACCCTATCCCAAGTGGGCTTCTCTCT
 TTCCCCAGCTCCCACAGACATCCAGTACTGGCTACAGCACCAGAACCACAGAGCCTCTTCACATCAG
 AAACAATCCCAGTATCATCTCTACAGACTGGCAAGCAGCTTTTGGCTTTGGTTCTTCTAAACAACCAGA
 GGATGACTTGGGTTTTGATCCCTTCGATGTCACTCGAAAAGCCTTAGCAGACCTGATTGAGAAGGAACTG
 TCCGTTCAAGACCAACCTTCCCTTTCGCCACATCTCTCAGAACTCCTTTCACACACTACAACCGCCA
 AAGGTCCAGGCTCTGGATTCTGCATCCTGCTGCAGCTACAAATGCCAATTCTCTCAATAGTACCTTTTC
 AGTCTTGGCCCAGAGTTCCCTCAATTTAGCAGCACCAGCGGTTTATAAATCATTAGTTTCCAGGC
 CAGGCAGCCCGCTATCCTTGGATGGCTTTCCACGCAATAGCATCATGCCTTGAACCACACAGCAAACC
 CCACCTCAATAGTAATTTCTGGACTTGAATCTCCGCCACAGCACAACACAGGCTGGGAGGGATCCC
 TGTAGCAGGGGAAGAAGAGGTGAAGTTTCGACCATGCCACTGTCAACCTCTCCATTCATTACAACAA
 GGACAGCAGCCTACAAGTCTCCACTACTGTGGCC

ACGCGTACGCGGCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC207541 protein sequence
 Red=Cloning site Green=Tags(s)

MSRSPDAKEDPVECPLCMEPLEIDDIINFFPCTCGYQICRFCWHIRTDENGLCPACRKPYPEDPAVYKPL
 SQEELQRIKNEKQKQNERKQKISENRKHLASVRVYQKNLVFVVGLSQRLADPEVLKRPEYFGKFGKIHK
 VVINNSTSYAGSQGPSASAYVTYIRSEDALRAIQCVNNVVVDGRTLKASLGTTKYCSYFLKNMQCPKPCD
 MYLHELGDAAASFKEEMQAGKHQEQKLLQELYKLNPNFLQLSTGSDKNKNKVTPLQSPIDKPSDSL
 SIGNGDNSQQISNSDTPSPPPGLSKSNPVIPISSNHSARSPFEGAVTESQSLFSDIFRHPNPIPSGLPP
 FPSSPQTSDDWPTAPEPQSLFTSETIPVSSSTDWQAAFQFGSSKQPEDDLGDFDPDVTTRKALADLIEKEL
 SVQDQPSLSPTSLQNSSSHTTTAKGPGSGFLHPAAATNANSLNSTF SVLPQRFQFQHRVYNSFSFPG
 QAARYPWMAFPRNSIMHLNHTANPTSNSNFLDLNLPQHNTGLGGIPVAGEEEVKVSTMPLSTSSHSLQQ
 GQQPSTLHTTVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk6337_a09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:


ACCN: NM_001008225

ORF Size: 1716 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_001008225.2](#)

RefSeq Size: 3774 bp

RefSeq ORF: 1719 bp

Locus ID: 4850

UniProt ID: [O95628](#)

Cytogenetics: 7q33

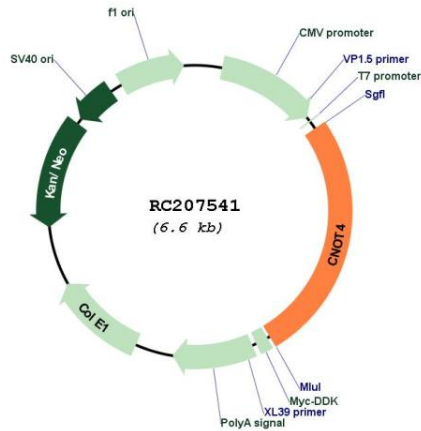
Protein Families: Druggable Genome, Transcription Factors

Protein Pathways: RNA degradation

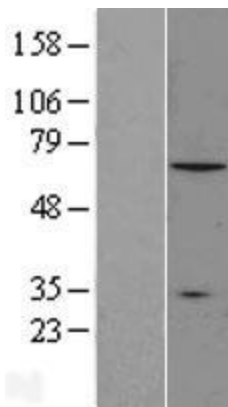
MW: 63.1 kDa

Gene Summary: The protein encoded by this gene is a subunit of the CCR4-NOT complex, a global transcriptional regulator. The encoded protein interacts with CNOT1 and has E3 ubiquitin ligase activity. Several transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Jul 2010]

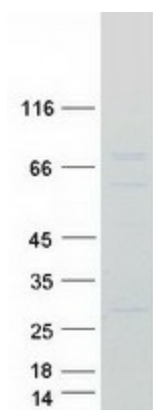
Product images:



Circular map for RC207541



Western blot validation of overexpression lysate (Cat# [LY423402]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207541 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CNOT4 protein (Cat# [TP307541]). The protein was produced from HEK293T cells transfected with CNOT4 cDNA clone (Cat# RC207541) using MegaTran 2.0 (Cat# [TT210002]).