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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
GCCGCGATCGCC

ATGTCTCGCAGTCCTGATGCGAAGGAAGACCCTGTGGAGTGCCCTCTTTGCATGGAGCCCTTGGAGATAG
ATGATATCAACTTTTTCCCTTGCACCTGTGGCTACCAGATTTGCCGATTTTGTTGGCATCGAATTCGCAC
TGATGAAAATGGGCTTTGTCCTGCATGTAGAAAGCCATATCCAGAAGACCCAGCAGTTTATAAACCACTC
TCCCAGGAAGAGCTGCAAAGGATAAAGAATGAGAAAAAACAGAAACAAAATGAGAGAAAACAGAAAATAT
CAGAAAATCGCAAACATTTGGCTAGTGTACGTGTCGTACAAAAAAACCTCGTCTTTGTTGTAGGTTTATC
TCAGCGCCTAGCAGACCCAGAGGTTTTAAAACGACCAGAATATTTTGGGAAGTTTGGTAAAATACATAAA
GTTGTCATCAATAATAGCACATCATATGCAGGCTCACAGGGTCCAAGTGCCAGTGCTTATGTAACCTATA
TCCGGTCAGAAGACGCTCTCAGAGCCATACAGTGTGTCAACAATGTGGTAGTAGATGGCAGAACACTTAA
GGCATCTCTAGGTACAACAAAATACTGCAGTTACTTCTTAAAGAATATGCAGTGTCCAAAACCTGACTGC
ATGTATCTTCATGAATTGGGGGATGAGGCGGCCAGCTTCACAAAAGAGGAAATGCAGGCGGGTAAACACC
AAGAATATGAACAGAAGCTACTTCAAGAATTATATAAATTAAATCCCAATTTTCTTCAGCTATCTACGGG
TTCAGTTGATAAAAATAAGAACAAAGTGACACCACTGCAGAGCCCCATTGACAAACCTTCAGATTCTCTC
AGTATAGGGAACGGTGATAATTCCCAGCAGATATCTAACAGTGATACGCCTTCACCACCACCTGGTTTGT
CAAAATCCAATCCAGTCATCCCCATCAGTTCATCCAATCACAGTGCACGGTCCCCTTTTGAAGGGGCAGT
AACAGAGTCACAGTCGTTATTCTCAGACATTTTTCGCCATCCCAACCCTATCCCAAGTGGGCTTCCTCCT
TTCCCCAGCTCCCCACAGACATCCAGTGACTGGCCTACAGCACCAGAACCACAGAGCCTCTTCACATCAG
AAACAATCCCAGTATCATCCTCTACAGACTGGCAAGCAGCTTTTGGCTTTGGTTCTTCTAAACAACCAGA
GGATGACTTGGGTTTTGATCCCTTCGATGTCACTCGAAAAGCCTTAGCAGACCTGATTGAGAAGGAACTG
TCCGTTCAAGACCAACCTTCCCTTTCGCCCACATCTCTTCAGAACTCCTCTTCACACACTACAACCGCCA
AAGGTCCAGGCTCTGGATTCCTGCATCCTGCTGCAGCTACAAATGCCAATTCTCTCAATAGTACCTTTTC
AGTCTTGCCCCAGAGGTTCCCTCAATTTCAGCAGCACCGAGCGGTTTATAATTCATTCAGTTTTCCAGGC
CAGGCAGCCCGCTATCCTTGGATGGCCTTTCCACGCAATAGCATCATGCACTTGAACCACACAGCAAACC
CCACCTCAAATAGTAATTTCTTGGACTTGAATCTCCCGCCACAGCACAACACAGGTCTGGGAGGGATCCC
TGTAGCAGGGGAAGAAGAGGTGAAGGTTTCGACCATGCCACTGTCAACCTCTTCCCATTCATTACAACAA
GGACAGCAGCCTACAAGTCTCCACACTACTGTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

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

MSRSPDAKEDPVECPLCMEPLEIDDINFFPCTCGYQICRFCWHRIRTDENGLCPACRKPYPEDPAVYKPL
SQEELQRIKNEKKQKQNERKQKISENRKHLASVRVVQKNLVFVVGLSQRLADPEVLKRPEYFGKFGKIHK
VVINNSTSYAGSQGPSASAYVTYIRSEDALRAIQCVNNVVVDGRTLKASLGTTKYCSYFLKNMQCPKPDC
MYLHELGDEAASFTKEEMQAGKHQEYEQKLLQELYKLNPNFLQLSTGSVDKNKNKVTPLQSPIDKPSDSL
SIGNGDNSQQISNSDTPSPPPGLSKSNPVIPISSSNHSARSPFEGAVTESQSLFSDIFRHPNPIPSGLPP
FPSSPQTSSDWPTAPEPQSLFTSETIPVSSSTDWQAAFGFGSSKQPEDDLGFDPFDVTRKALADLIEKEL
SVQDQPSLSPTSLQNSSSHTTTAKGPGSGFLHPAAATNANSLNSTFSVLPQRFPQFQQHRAVYNSFSFPG
QAARYPWMAFPRNSIMHLNHTANPTSNSNFLDLNLPPQHNTGLGGIPVAGEEEVKVSTMPLSTSSHSLQQ
GQQPTSLHTTVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

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

Restriction Sites: SgfI-MluI

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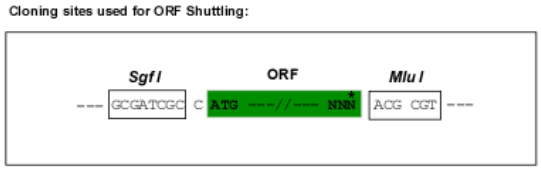
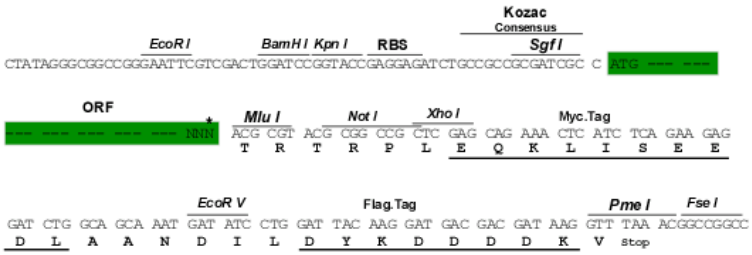
Cloning Scheme:





* The last codon before the Stop codon of the ORF

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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001008225.2
RefSeq Size:	3774 bp
RefSeq ORF:	1719 bp
Locus ID:	4850

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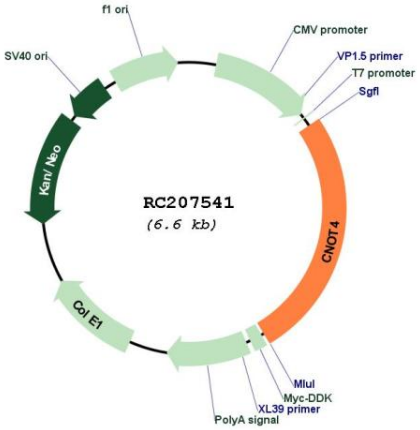
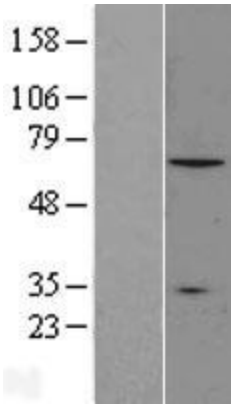
UniProt ID:	O95628
Cytogenetics:	7q33
Protein Families:	Druggable Genome, Transcription Factors
Protein Pathways:	RNA degradation
MW:	63.1 kDa
Gene Summary:	The protein encoded by this gene is a subunit of the CCR4-NOT complex, a global transcriptional regulator. The encoded protein interacts with CNOT1 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 un-transfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207541 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).

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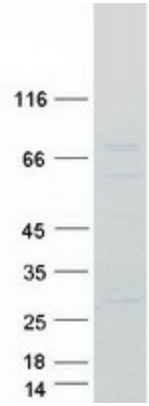

Coomassie blue staining of purified CNOT4 protein (Cat# [TP307541]). The protein was produced from HEK293T cells transfected with CNOT4 cDNA clone (Cat# RC207541) using MegaTran 2.0 (Cat# [TT210002]).

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