

Product datasheet for **RC203795**

CCR4 NOT transcription complex subunit 3 (CNOT3) (NM_014516) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CCR4 NOT transcription complex subunit 3 (CNOT3) (NM_014516) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	CCR4 NOT transcription complex subunit 3
Synonyms:	IDDSADF; LENG2; NOT3; NOT3H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC203795 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGGACAAGCGCAAACCTCCAAGGTGAGATTGATCGCTGCCTCAAGAAGGTGCCGAGGGCGTGGAGC
 AGTTTGAAGATATTTGGCAGAAGCTCCACAATGCAGCCAACGCGAACAGAAAGAAAAGTATGAGGCTGA
 CCTAAAGAAGGAGATTAAGAAGCTACAACGGCTGAGGGACCAAATCAAGACATGGGTAGCGTCCAACGAG
 ATCAAGGACAAGAGGCAGCTTATAGACAACCGCAAGCTCATTGAGACGCAAATGGAACGGTTCAAAGTTG
 TGGAACGAGAGACAAAACCAAAGCTTACAGCAAAGAGGGCCTGGGCCTGGCCAGAAAGGTAGATCTGC
 CCAGAAGGAGAAGGAAGAGGTTGGCCAGTGGCTCACGAATACCATCGACACGCTCAACATGCAGGTGGAC
 CAGTTTGAGAGTGAAGTGGAGTCACTGTCAGTGCAGACACGCAAGAAGAAGGGCGACAAGGATAAGCAGG
 ACCGGATTGAGGGCTTGAAGCGGCACATCGAGAAGCACCGCTACCACGTGCGCATGCTAGAGACCATCT
 GCGCATGCTGGACAATGACTCCATCCTCGTTGACGCCATCCGCAAGATCAAGGACGACGTTGAGTACTAT
 GTTGACTCATCCAGGACCCCGACTTCGAGGAGAACGAGTTTCTCTACGATGACCTGGACCTCGAGGACA
 TTCCACAGGGCGTGGTCGCCACCTCCCCCCCCAGCCACAGCCACATGGAGGATGAGATCTTCAACCAGTC
 CAGCAGCACGCCACCTCAACCACCTCCAGCTCTCCCATCCCGCCAGCCAGCCAACTGTACCACGGAA
 AACTCTGAAGATGATAAGAAGAGGGGACGTTCCACAGACAGTGAAGTCAAGCCAGTCTCCAGCCAAAAACG
 GCTCAAGCCTGTCCACAGCAACCCAGCACCCCTCAGTCCCAGCTGTGCCGCCACCTACCCTCCGGCCC
 CCCGCCTGCTGCCTTGCCTTGAGCACCCTCTGGCAACAATGGGGTCCCCGCCCGCAGCACCCCA
 AGTGCCCTGGGCCCAAGGCCAGTCCAGCTCCCAGCCACAACCGGGCACCCCTGCTCCCTATGCCCAGG
 CGGTGGCCCAACAGCTCCAGTGGGCCAGCACGACCCAGCCCGGCCCGCCAGCGTCCAGCTAGCCG
 AGGCGGAGGCGGGCAGCGGAGGCGGAGGAGCAGCAGCAGTAGTAACAGCAGTGCCGGTGGAGGGGCT
 GGCAAGCAGAATGGCGCCACCAGTTACAGCTCAGTTGTGGCAGACAGCCGGCAGAGGTGGCTTTGAGCA
 GCAGTGGGGGCAACAATGCCAGCAGCCAGGCCCTTGGGCCCCCTTCCGGCCCCACAACCACCTCCAG
 CACCTCGAAGGAACCCAGTGCAGCAGCCCAACGGGGGCTGGGGGCGTGGCCCCAGGCTCAGGGAACAAC
 TCAGGGGGACCCAGCCTCCTGGTGCCTGCCTGTGAATCCTCCAGCTCCCCAACGCCAGCTTCAGTG
 ATGCCAAGGCAGCCGGTGCCTGCTCAATGGGCCTCCACAGTTCAGCACCCGCCAGAAATCAAGGCCCC
 TGAGCCTCTGAGCTCCTGAAGTCCATGGCGGAACGGGCAGCCATCAGCTCTGGCATTGAGGACCCTGTG
 CCAACGCTGCACCTGACCGAGCGAGACATCATCCTGAGCAGTACATCAGCACCTCCGGCCTCAGCCAGC
 CGCCCCTGCAGCTGTAGAGGTGAACATACCGCTGTGCTGGGTGTCTGTCCACTGGGCCCTGTGCCCT
 CACCAAGGAGCAGCTCTATCAGCAGGCCATGGAAGAGGCCGCTGGCACCCACATGCCTCACCCCTGTGAC
 TCTGAGCGTATTCGGCAGTACCTCCCCGGAACCCCTGTCCGACGCCCCCTACCACCACAGATGCCAC
 CCCCACACTCGGACACTGTGGAATTCTACCAGCGCCTGTGACCGAGACACTCTTCTTCTTCTACTA
 TCTGGAGGGCACTAAGGCACAGTATCTGGCAGCCAAGGCCCTAAAGAAGCAGTATGGCGATTCCACACC
 AAGTACATGATGTGGTTCCAGAGGCACGAGGAGCCCAAGACCATCACTGACGAGTTTGGCAGGGCACCT
 ACATCTACTTTGACTACGAGAAGTGGGGCAGCGGAAGAAGGAAGGCTTACCTTTGAGTACCGTACCT
 GGAGGACCGGGACCTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RC203795 protein sequence
 Red=Cloning site Green=Tags(s)

MADKRKLQGEIDRCLKKVSQVEQFEDIWQKLHNAANANQKEKYEADLKEIKKLQRLRDQIKTWASNE
 IKDKRQLIDNRKLIETQMERFKVVERETKTKAYSKEGLGLAQKVDPAQKEKEEVGQWLTNTIDTLNMQVD
 QFESEVESLSVQTRKKKGDKDKQDRIEGLKRHIEKHRYHVRMLETILRMLDNDLSILVDAIRKIKDDVEYY
 VDSSQDPDFEENEFLYDDLDELDIPQALVATSPSSHMEDEIFNQSSSTPTSTTSSSIPSPANCTTE
 NSEDDKKRGRSTDSEVSQSPAKNGSKPVHSNQHPQSPAVPPTYPSGPPPAASALSTTPGNGVPAPAAPP
 SALGPKASPAPSHNSGTPAPYAQAVAPPAPSGPSTTQPRPPSVQPSGGGGGGSGGGSSSSNSAGGGA
 GKQNGATSYSSVADSPAVALSSSGNASSQALGPPSGPHNPPSTSKEPSAAAPTGAGGVAPGSGNN
 SGGPSLLVPLVNPSSPTPSFDAKAAGALLNGPPQFSTAPEIKAPEPLSSLKMAERAAISSGIEDPV
 PTLHLTERDIIILSSTAPPASAQPLQLSEVNIPLSLGVCPLGPVPLTKEQLYQQAMEEAAWHMPHPSD
 SERIRQYLPRNPCPTPPYHHQMPPHSDTVEFYQRLSTETLFFIFYYLEGKAQYLAALKKQSWRFHT
 KYMMWFQRHEEPTITDEFEQGTIYFDYEKWQRKKEGFTFEYRYLEDRLDQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6540_a05.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_014516

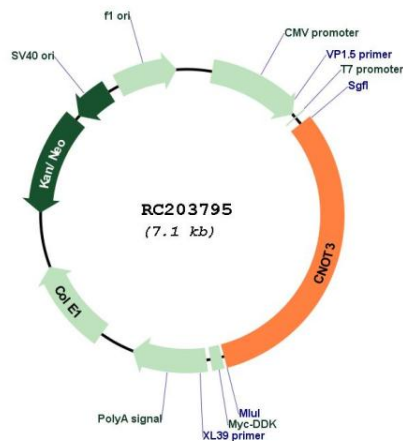
ORF Size: 2259 bp

OTI Disclaimer:	<p>Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.</p> <p>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</p>
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_014516.4
RefSeq Size:	2908 bp
RefSeq ORF:	2262 bp
Locus ID:	4849
UniProt ID:	O75175
Cytogenetics:	19q13.42
Protein Families:	Transcription Factors
Protein Pathways:	RNA degradation
MW:	81.9 kDa

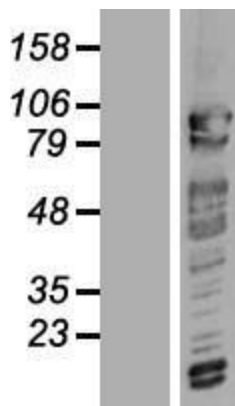
Gene Summary:

Component of the CCR4-NOT complex which is one of the major cellular mRNA deadenylases and is linked to various cellular processes including bulk mRNA degradation, miRNA-mediated repression, translational repression during translational initiation and general transcription regulation. Additional complex functions may be a consequence of its influence on mRNA expression. May be involved in metabolic regulation; may be involved in recruitment of the CCR4-NOT complex to deadenylation target mRNAs involved in energy metabolism. Involved in mitotic progression and regulation of the spindle assembly checkpoint by regulating the stability of MAD1L1 mRNA. Can repress transcription and may link the CCR4-NOT complex to transcriptional regulation; the repressive function may involve histone deacetylases. Involved in the maintenance of embryonic stem (ES) cell identity.[UniProtKB/Swiss-Prot Function]

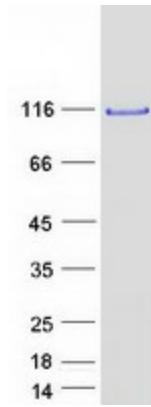
Product images:



Circular map for RC203795



Western blot validation of overexpression lysate (Cat# [LY415218]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203795 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified CNOT3 protein (Cat# [TP303795]). The protein was produced from HEK293T cells transfected with CNOT3 cDNA clone (Cat# RC203795) using MegaTran 2.0 (Cat# [TT210002]).