

## Product datasheet for **RG203795**

### 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:	TurboGFP
Symbol:	CCR4 NOT transcription complex subunit 3
Synonyms:	IDDSADF; LENG2; NOT3; NOT3H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG203795 representing NM\_014516  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGACAAGCGCAAACCTCCAAGGTGAGATTGATCGCTGCCTCAAGAAGGTGTCCGAGGGCGTGGAGC  
 AGTTTGAAGATATTTGGCAGAAGCTCCACAATGCAGCCAACGCGAACAGAAAGAAAAGTATGAGGCTGA  
 CCTAAAGAAGGAGATTAAGAAGCTACAACGGCTGAGGGACCAAATCAAGACATGGGTAGCGTCCAACGAG  
 ATCAAGGACAAGAGGCGAGCTTATAGACAACCGCAAGCTCATTGAGACGCAAATGGAACGGTTCAAAGTTG  
 TGGAACGAGAGACAAAACCAAAGCTTACAGCAAAGAGGGCCTGGGCCTGGCCAGAAAGGTAGATCTGC  
 CCAGAAGGAGAAGGAAGAGGTTGGCCAGTGGCTCACGAATACCATCGACACGCTCAACATGCAGGTGGAC  
 CAGTTTGAGAGTGAAGTGGAGTCACTGTCAGTGCAGACACGCAAGAAGAAGGGGCGACAAGGATAAGCAGG  
 ACCGGATTGAGGGCTTGAAGCGGCACATCGAGAAGCACCGCTACCACGTGCGCATGCTAGAGACCATCT  
 GCGCATGCTGGACAATGACTCCATCCTCGTTGACGCCATCCGCAAGATCAAGACGACGTTGAGTACTAT  
 GTTGACTCATCCAGGACCCCGACTTCGAGGAGAACGAGTTTCTCTACGATGACCTGGACCTCGAGGACA  
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 GCTCCAAGCCTGTCCACAGCAACCCAGCACCCCTCAGTCCCAGCTGTGCCGCCACCTACCCTCCGGCCC  
 CCCGCCTGCTGCCTTGCCTTGAGCACCCTCTGGCAACAATGGGGTCCCCGCCCGCAGCACCCCA  
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 AGGCGGAGGCGGGCAGCGGAGGGAGGAGCAGCAGCAGTAGTAACAGCAGTGCCGGTGGAGGGGCT  
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 CACCTCGAAGGAACCCAGTGCAGCAGCCCAACGGGGGCTGGGGGCGTGGCCCCAGGCTCAGGGAACAAC  
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 CCCCACACTCGGACACTGTGGAATTCTACCAGCGCCTGTGACCCGAGACACTCTTCTTCTTCTACTA  
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 AAGTACATGATGTGGTTCCAGAGGCACGAGGAGCCCAAGACCATCACTGACGAGTTTGGCAGGGCACCT  
 ACATCTACTTTGACTACGAGAAGTGGGGCAGCGGAAGAAGGAAGGCTTACCTTTGAGTACCGTACCT  
 GGAGGACCGGGACCTCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

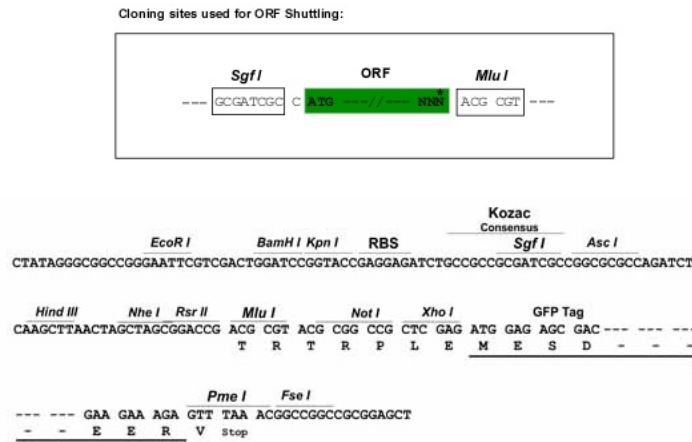
**Protein Sequence:** >RG203795 representing NM\_014516  
Red=Cloning site Green=Tags(s)

MADKRKLQGEIDRCLKKVSQVEQFEDIWQKLHNAANANQKEKEYEADLKKEIKKLQRLRDQIKTWVASNE  
 IKDKRQLIDNRKLIETQMERFKVVERETKTKAYSKEGLGLAQKVDPAQKEKEEVGQWLTNTIDTLNMQVD  
 QFESEVESLSVQTRKKKGDKDKQDRIEGLKRHIEKHRYHVRMLETILRMLDNDLSILVDAIRKIKDDVEYY  
 VDSSQDPDFEENEFLYDDLLEDIPQALVATSPPSHSHMEDEIFNQSSSTPTSTTSSSPIPPSPANCTTE  
 NSEDDKKRGRSTDSEVSQSPAKNGSKPVHSNQHPQSPAVPPTYPSGPPPAASALSTTPGNNGVPAPAAPP  
 SALGPKASPAPSHNSGTPAPYAQAVAPPAPSGPSTTQPRPPSVQPSGGGGGGSGGGSSSSSSNSAGGGA  
 GKQNGATSYSSVADSPAVALSSSGNASSQALGPPSGPHNPPSTSKEPSAAAPTGAGGVAPGSGNN  
 SGGPSLLVPLPVNPPSSPTPSFDAKAAGALLNGPPQFSTAPEIKAPEPLSSLKMAERAAISSGIEDPV  
 PTLHLTERDIIILSSTAPPASAQPPLQLSEVNIPLSLGVCPLGPVPLTKEQLYQQAMEEAAWHHMPHPSD  
 SERIRQYLPRNPCPTPPYHHQMPPHSDTVEFYQRLSTETLFFIFYYLEGKAQYLAALKKQSWRFHT  
 KYMMWFQRHEEPTITDEFEQGTIYFDYEKWQRKKEGFTFEYRYLEDRLQ

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_014516

**ORF Size:** 2259 bp

**OTI Disclaimer:** 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](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_014516.2](#), [NP\\_055331.1](#)

**RefSeq Size:** 2855 bp

**RefSeq ORF:** 2262 bp

**Locus ID:** 4849

**UniProt ID:** [O75175](#)

**Cytogenetics:** 19q13.42

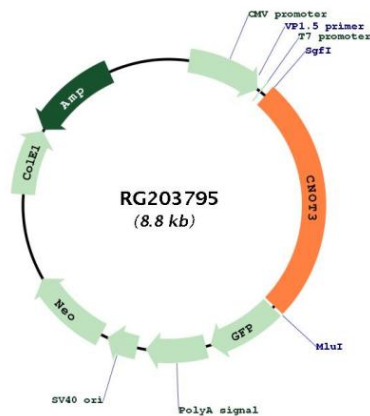
**Protein Families:** Transcription Factors

**Protein Pathways:** RNA degradation

**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 RG203795