

Product datasheet for **RG204121**

CNOT2 (NM_014515) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNOT2 (NM_014515) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNOT2
Synonyms:	CDC36; HSPC131; IDNADFS; NOT2; NOT2H
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RG204121 representing NM_014515
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTGAGGACTGATGGACATACATTATCTGAGAAAAGAACTACCAGGTGACAAACAGCATGTTTGGTG
 CTTCAAGAAAGAAGTTTGTAGAGGGGTCGACAGTACTACCATGACGAAAACATGACTACAGCCAGTC
 TTCTATGTTTCCACATCGGTGAGAAAAGATATGCTGGCATCACCATCTACATCAGGTGAGTCTCTCAG
 TTTGGGGCAAGTTTATACGGGCAACAAAGTGCAGTACAGCCTTCCAATGAGGGGGATGAGCAACAATACCC
 CTCAGTTAAATCGCAGCTTATCACAAGGCACTCAGTTACCGAGCCACGTCAGCCAAACAAGGGGTACC
 AACATGTCACCTCACACGCCTCCATCTCCAAGCAGGGGTATTTTGCCTATGAATCTAGGAATATGATG
 AACCACTCCCAGGTTGGTCAGGGCATTGGAATTCCTAGCAGGACAATAGCATGAGCAGTTCAGGGTTAG
 GTAGCCCCAACAGAAGCTCGCCAAGCATAATATGTATGCCAAAGCAGCAGCCTTCTCGACAGCCTTTTAC
 TGTGAACAGTATGCTGGATTTGGAATGAACAGGAATCAGGCATTTGGAATGAATAACTCCTTATCAAGT
 AACATTTTAAATGGAACAGACGGAAGTGAATGTGACAGGATTGGACCTTTCAGATTTCCAGCATTAG
 CAGACCGAAACAGGAGGGAAGGAAGTGGTAACCCAACCTCATTAAATAAACCCCTTGGCTGGAAGAGCTCC
 TTATGTTGGAATGGTAACAAAACAGCAAAATGAACAATCCAGGACTTCTCAATACACAATGAAGATTTT
 CCAGCATTACCAGGCTCCAGCTATAAAGATCCAACATCAAGTAATGATGACAGTAAATCTAATTTGAATA
 CATCTGGCAAGACAACCTCAAGTACAGATGGACCCAAATCCCTGGAGATAAAAGTTCAACAACAAAA
 TAATAACCAGCAGAAAAAAGGGATCCAGGTGTACCTGATGGTCGGGTTACTAACATTCCTCAAGGGATG
 GTGACGGACCAATTTGGAATGATTGGCCTGTTAACATTTATCAGGGCAGCAGAGACAGCCAGGAATGG
 TACATCTTGCAATTAGGAAGTGACTTAACAACATTAGGCCTCAACTGAACTCTCCTGAAAATCTCTACCC
 CAAATTTGCGTCAACCCTGGGCATCTTCACTTGTGACCTCAAGACATAGACTTCCATGTTCCATCTGAG
 TACTTAACGAACATTCACATTAGGGATAAGCTGGCTGCAATAAACTTGGCCGATATGGTGAAGACCTTC
 TCTTCTATCTCTATTACATGAATGGAGGAGACGTATTACAACCTTTAGCTGCAGTGGAGCTTTTTAACCG
 TGATTGGAGATACCACAAAGAAGAACGAGTATGGATTACCAGGGCACCAGGCATGGAGCCAAACAATGAAA
 ACCAATACCTATGAGAGGGGAACATATTACTTCTTTGACTGTCTTAAGTGGAGGAAAGTAGCTAAGGAGT
 TCCATCTGGAATATGACAAATTAGAAGAACGGCCTCACCTGCCATCCACCTTCAACTACAACCTGCTCA
 GCAAGCCTTCT

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG204121 representing NM_014515
 Red=Cloning site Green=Tags(s)

MVRTDGHTLSEKRYQVTNSMFGASRKKFVEGVDSYHDENMYYSQSSMFPHRSEKMDLASPSTSGQLSQ
 FGASLYGQQSALGLPMRGMSSNTPQLNRSLSQGTQLPSHVPTTGVPTMSLHTPPSPSRGILPMNPRNMM
 NHSQVGGIGIPSRNSMSSSGLGSPNRSSPSIIICMPKQPSRQPFTVNSMSGFGMNRNQAFGMNNSLSS
 NIFNGTDGSENVTLGLDLSDFPALADRNRREGSGNPTPLINPLAGRAPYVGMVTKPANEQSQDFSIHNEDF
 PALPGSSYKDPTSSNDDSKSNLNTSGKTTSSDGPKEFPGDKSSTQNNNQKQKGIQVLPDGRVTNIPQGM
 VTDQFGMIGLLTFIRAAETDPGMVHLALGSDLTTLGLNLNSPENLYPKFASPWASSPCRQDIDFHVPSE
 YLNIHIRDKLAAIKLGRYGEDLLFYLYMNGGDVLLA AVELFNRDWRVYHKEERVWITRAPGMEPTMK
 TNTYERGTYYFFDCLNWRKVAKEFHLEYDKLEERPHLPSTFNYPNAQQAF

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_014515

ORF Size: 1621 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 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_014515.4, NP_055330.1](#)

RefSeq Size: 3280 bp

RefSeq ORF: 1623 bp

Locus ID: 4848

UniProt ID: [Q9NZN8](#)

Cytogenetics: 12q15

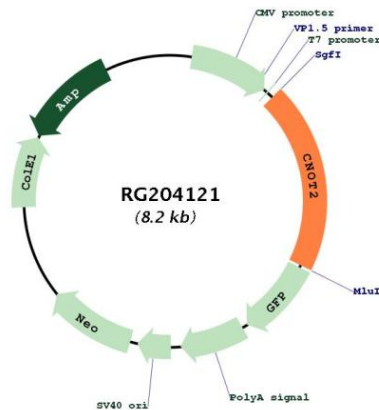
Domains: NOT

Protein Families: Transcription Factors

Protein Pathways: RNA degradation

Gene Summary: This gene encodes a subunit of the multi-component CCR4-NOT complex. The CCR4-NOT complex regulates mRNA synthesis and degradation and is also thought to be involved in mRNA splicing, transport and localization. The encoded protein interacts with histone deacetylases and functions as a repressor of polymerase II transcription. Alternatively spliced transcript variants have been observed for this gene. [provided by RefSeq, Dec 2010]

Product images:



Circular map for RG204121