

Product datasheet for **RG234770**

CNOT10 (NM_001256741) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	CNOT10 (NM_001256741) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	CNOT10
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide
Sequence:**

>RG234770 representing NM_001256741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGCAGACAAGCCTGCAGATCAGGGAGCAGAGAAACATGAAGGCACAGGTCAGTCCTCTGGGATCA
 CTGATCAAGAGAAGGAGTTATCCACCAATGCTTTCCAAGCTTTCACATCTGGAAATTATGATGCCTGTCT
 ACAACACCTTGCCTGTCTACAAGATATAAACAAAGATGATTATAAAATAATTTTGAATACAGCAGTAGCT
 GAGTTTTTTAAAAGTAACCAACAACAACAGATAATTTGAGACAAACACTTAACCAGCTGAAGAATCAGG
 TCCACTCAGCTGTTGAAGAAATGGATGGATTAGATGATGTTGAAAACAGCATGTTGTAATAATCAAGC
 AGTCATTCTTTATCATCTGCGGCAGTATACAGAAGCCATATCAGTTGGTAAAAACTTTATCAGTTCATA
 GAGCCTTTTGAAGAAAAATTTGCCAAGCAGTGTGTTTTTGGCTGTAGACCTGTATATTAACCTACC
 AAGCTGAGAAAGCTTTGCATCTTCTGCTCCTAGAAAAATGATTTTCACAGGTAACAATAACAAAA
 TGGAAAGAATGAGACTGGTAATAACAACAACAAGATGGATCTAATCATAAAGCTGAAAGTGAGCTCTA
 ATAGAAGCTGCAAAATCAAAGATACATCAGTACAAAGTACGAGCTTATATCCAAATGAAGCTCTGAAAG
 CATGTAAGGGAAATCAAGTCAGTCATGAATACAGCTGGAAATTCGCGACCCCTCTCTTTTCTTAAAG
 CAATTTTGAAGTACTTAAGAGTAATTATCGAAAAGCCGTGAAGCTATTAATAGTTCAAACATTGCTGAG
 CATCCAGGATTCATGAAAACAGGTGAATGCTTGAGATGCATGTTCTGGAATAACCTTGGTTGCATCCATT
 TTGCCATGAGCAAGCACAATTTGGGAATATTCTACTTTAAAAGGCTCTGCAAGAGAATGACAATGTCTG
 TGCACAGCTCAGTGCAGGTAGCACTGATCCAGGTAATAATTTTTCAGGAAGCCCATGTGTACGTTACTA
 ACCAATAAGAGATATGAGTTGCTGTATAACTGTGAATTCAGCTTCTTACATTGGAAGGCTCTTGCTG
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 TTTATAATGATGGGCAGTCTTCGGCCATTCTGTAGCCAGTATGGAGTTTGCAGCCATATGTCTCAGAAA
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 ACGTGGCTCTGGCTTTGGGTGATAACCTCATGGCTTTGAATCATGCAGATAAACTTCTTCAGCAGCCAA
 GCTGTCAGGATCTCTAAGTTTTTGGGACATTTATGCTGCAGAAGCCCTCATCTCTCGACAGAATA
 TCTGATGCCATTACTCACTTGAACCCGGAGAATGTCAGTGTCTCCTTAGGGATCTCTCAAATGAGC
 AGGACCAAGGATCAGACAAAGGTGAAAAATGAAGCAATGGAATCCTCTGGTAAGCGGGCCCTCAGTGCTA
 CCCCAGTTCGGTCAACTCTGCCAGGACTGTGATGCTGTTCAACCTTGGCAGCGCTTACTGCCTGAGGAGC
 GAATATGACAAAGCCGAAAGTGTCTCCACCAGGCGGCTTCAATGATCCATCCTAAAGAGGTGCCCCCTG
 AGGCCATCTTGCTGGCAGTCTACCTTGAAGTGCAGAAATGGTAATACTCAGCTGGCCTTACAGATCATCAA
 AAGGAATCAGTGTCTCCCTGCAGTGAACAACACTCTGAAGTGAAGAAAGCCAGTGTTCAGCCTGTC
 CACCCGATCCAGCCCATCAAATGCCGGCTTTCACCACTGTGCAGAGAAAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence: >RG234770 representing NM_001256741
 Red=Cloning site Green=Tags(s)

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MAADKPADQGAEKHEGTGQSSGITDQEKELSTNAFQAFTSGNYDAQLHLACLQDINKDDYKIIILNTAVA
EFFKSNQTTTNDLRQTLNQLKNQVHSAVEEMDGLDDVENSMLYYNQAVILYHLRQYTEAISVGEKLYQFI
EPFEEKFAQAVCFLLVDLYILTYQAEKALHLLAVLEKMI SQGNKNGKNETGNNNNKDGSNHKAESGAL
IEAAKSKIHQYKVRAYIQMKS LKACKREIKSVMNTAGNSAPSLFLKSNFEYLRGNYRKAVKLLNSSNIAE
HPGFMTGECLRCMFWNNLGC IHFAMSKHNLGIFYFKKALQENDNVCAQLSAGSTDPGKKFSGRPMCTLL
TNKRYELLYNCGIQLLHIGRPLAAFECLIEAVQVYHANPRLWLR LAECCIAANKGTSEQETKGLPSKKG I
VQSI VGGQYHRKIVLASQSIQNTVYNDGQSSAIPVASMEEFAAICLRNALLLLPEEQDQPKQENGAKNSNQ
LGGNTESSSESETCRCSILACSA YVALALGDNLMALNHADKLLQPKL SGSLKFLGHL YAAEALISLDRI
SDAITHLNPENVTDVSLGISSNEQDQSGDKGENEAMESSGKRAPQCY PSSVNSARTVMLFNLGSAYCLRS
EYDKARKCLHQAASMIHPKEVPPEAILLAVYLELQNGNTQLALQI IKRNQLLPAVKTHSEVRKPPVFPV
HPIQPIQMPAFTTVQRK
  
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TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001256741

ORF Size: 2151 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_001256741.2](#)

RefSeq Size: 2748 bp

RefSeq ORF: 2154 bp

Locus ID: 25904

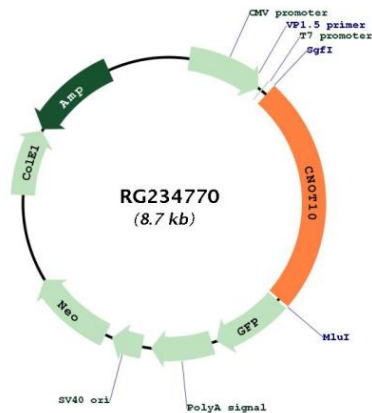
UniProt ID: [Q9H9A5](#)

Cytogenetics: 3p22.3

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. Is not required for association of CNOT7 to the CCR4-NOT complex. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for RG234770