

## Product datasheet for **RG234907**

### **CNOT10 (NM\_001256742) Human Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	CNOT10 (NM_001256742) 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:**

>RG234907 representing NM\_001256742  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGAAGTCTATTGGTGTAAAGACTGTCAAGTTTTGTGGTCAAAGAGCTCTGTACGCATAGAAGGTCAAG  
 CATGTTTCATTAGGCCAGAGTAGAAGGAAAGTCAAGCTTATGGGTGAACGGTCGTATACTCTTTCAATTGG  
 CAACGGAGACTACTTTTGGGCAAATAAAGAAATGCTGTGGGATTATGTGCAGACTCTGTCTGATCAGGGA  
 GCAGAGAAACATGAAGGCACAGGTCAAGTCTCTGGGATCACTGATCAAGAGAAGGAGTTATCCACCAATG  
 CTTTCCAAGCTTTCACATCTGGAATTATGATGCCTGTCTACAACACCTTGCCTGTCTACAAGATATAAA  
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 CAAAGATGGATCTAATCATAAAGCTGAAAGTGGAGCTCTAATAGAAGCTGCAAAATCAAAGATACATCAG  
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 TCTACTTTAAAAGGCTCTGCAAGAGAATGACAATGTCTGTGCACAGCTCAGTGCAGGTAGCATCC  
 AGGTAAAAAATTTTCAAGGAAGACCCATGTGTACGTTACTAACCAATAAGAGATATGAGTTGCTGTATAAC  
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 TTTATCATGCAAACTCCTCGCCTCTGGCTACGGCTGGCTGAATGCTGCATTGCTGCCAATAAGGGGACTTC  
 TGAACAAGAACTAAAGGCTTCCAGCAAAAAAGGAATGTACAGTCTATTGTTGGTCAAGGCTATCAT  
 CGTAAAAATAGTTTGGCATCACAGTCTATACAGAATACTGTTTAAATGATGGGCAGTCTTCGGCCATTC  
 CTGTAGCCAGTATGGAGTTTGCAGCCATATGTCTCAGAAATGCCTTGTGCTGCTACCTGAAGAACAGCA  
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 AGGTGAAAATGAAGCAATGGAATCCTCTGGTAAGCGGGCCCTCAGTGTACCCCAAGTCCCGTCAACTCT  
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 CTACCTTGAAGTGCAGAATGGTAATACTCAGTGGCCTTACAGATCATCAAAGGAATCAGCTGCTCCCT  
 GCAGTGAACACACTCTGAAGTGAGAAAGAACCCAGTGTTCAGCCTGTCCACCCGATCCAGCCCATCC  
 AAATGCCGGCTTTCACCACTGTGCAGAGAAAG

**ACCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:** >RG234907 representing NM\_001256742  
 Red=Cloning site Green=Tags(s)

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MKSIGVKTVKVCGSKSSVRIEQPCSLGQSRRKVKLMGERSYTL SIGNGDYFWANK EMLWDYVQTLSDQG
AEKHEGTGQSSGITDQEKELSTNAFQAF TSGNYDAQLHLACLQDINKDDYKII LNTAVAEFFKSNQTTT
DNLRQTLNQLKNQVHSAVEEMDGLDDVENSML YYNQAVILYHLRQYTEAI SVGEKLYQFIEPFEEKFAQA
VCFLLDVLYILTYQAEKALHLLAVLEKMI SQGNNNKNGKNETGNNNNKDGSNHKAESGAL IEAAKSKIHQ
YKVRAYIQMKS LKACKREIKSVMNTAGNSAPSLFLKSNFEYLRGNYRKAVKLLNSSNIAEHPGFMKTGEC
LRCMFWNNLGC IHFAMSKHNLGIFYFKKALQENDNVCAQLSAGSTDPGKKFSGRPMCTLLTNKRYELLYN
CGIQLLHIGRPLAAFECLIEAVQVYHANPRLWLR LAECCIAANKGTSEQETKGLPSKKGIVQSI VGGQYH
RKIVLASQSIQNTVYNDGQSSAIPVASM EFAAICLRNALLLLPEEQDPKQENGAKNSNLGGNTESSES
SETCSSKSHDGDKFI PAPPSSPLRKQEL ENLKCSILACSAYVALALGDNLMALNHADKLLQPKLSGLK
FLGHL YAAEALISLDRISDAITHLNPENVTDVSLGISSNEQDQGS DKGENEAMESSGKRAPQCY PSSVNS
ARTVMLFNLGSAYCLRSEYDKARKCLHQ AASMIHPKEVPPEA ILLAVYLELQNGNTQLALQI IKRNLPL
AVKTHSEVRKKPVFPVHPIQPIQMPAFTTVQRK
  
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001256742

**ORF Size:** 2412 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\\_001256742.1](#), [NP\\_001243671.1](#)

**RefSeq Size:** 2778 bp

**RefSeq ORF:** 2415 bp

**Locus ID:** 25904

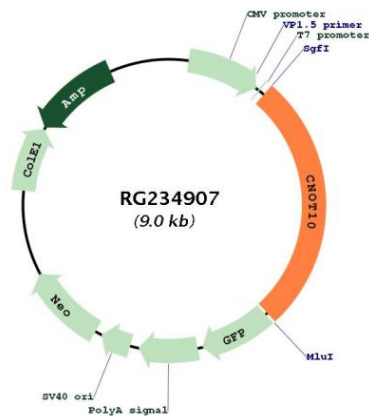
**UniProt ID:** [Q9H9A5](#)

**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 RG234907