

## Product datasheet for **MG210463**

### **Cnot3 (NM\_146176) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cnot3 (NM_146176) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cnot3
Synonyms:	A930039N10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>MG210463 representing NM\_146176  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCGGACAAGCGCAAACCTCCAAGGTGAGATTGATCGCTGCCTCAAGAAGGTGTCCGAAGGGTGGAGC  
 AGTTTGAAGATATTTGGCAAAAGCTCCACAATGCAGCCAACGCGAACAGAAAGAAAAGTATGAGGCTGA  
 CCTAAAGAAGGAGATTAAGAAGCTACAACGGCTGAGGGACCAGATCAAGACATGGGTAGCATCAAATGAG  
 ATCAAGGACAAAAGCGAGCTTATTGAAAACCGCAAGCTCATTGAGACGAAATGGAACGGTTCAAAGTTG  
 TGGAACGAGAGACAAAACCAAAGCGTATAGCAAGGAGGGTCTGGGTCTGGCTCAGAAGGTGGATCTGC  
 CCAGAAGGAGAAGGAAGAAGTTGGCCAGTGGCTCACGAACACCATTGACACCTTAAATATGCAGGTGGAC  
 CAGTTTGAGAGTGAAGTGGAGTCACTGTCGGTACAGACACGCAAGAAGAAAGGCGACAAGGATAAGCAGG  
 ACCGGATTGAGGGCTTGAAGCGCATATCGAGAAGCACCGCTACCATGTTTCGATGCTGGAGACCATCT  
 GCGAATGCTGGACAATGACTCCATCCTGGTTGATGCCATCCGCAAGATCAAGGATGATGTGGAGTACTAC  
 GTTGACTCATCCCAGGACCCCGACTTTGAAGAGAACGAATTCCTCTATGACGACCTGGACCTCGAGGACA  
 TTCCACAGGGCGTGGTCCGACCTCCCCCCCCAGCCACAGCCACATGGAGGACGAGATCTTCAACCAGTC  
 TAGCAGTACACCCACCTCAACAACCTCCAGCTCTCCCATCCCACCCAGCCAGCAAACTGCACTACGGAA  
 AACTCTGAAGATGATAAGAAGAGAGGGCCGATCTACAGATAGTGAAGTCAAGCCAGTCTCCAGCCAAAAATG  
 GCTCCAAGCCTGTCCACAGCAACCCAGCACCCCGCTCCAGCTGTGCCGCCACCTACCCCTCTGGCCC  
 CCCACCTACCCTTCTGCCTTGAAGTCCACCCCTGGCAACAATGGGGCCTTACCCAGCAGCACCTACA  
 AGTGCCCTGGGCCCTAAGGCCAGTCCAGCTCCAGCCACAACCTCGGGTACTCTGCACCCATGCCAGG  
 CTGTGGCCCCACCTAATGCCAGCGGGCCAGCAATGCCAGCCAGGCCCCCGCTGCCCCAGCAAGCGG  
 GGAAGTGGTGGTGGCAGCGGAGGGAGCAGCAATAGTAACAGTGGCACAGGCGGAGGGCTGGCAAG  
 CAGAACGGTGCCACAAGCTATAGTTCGGTTGTGGCAGACAGCCCTGCAGAGGTGACCCTGAGTAGCAGTG  
 GGGCAGCAGTGCAGCAGCCAGCCCTTGGGCCACTTCGGGCCCTCACAACCCAGCTCCAGCACCTC  
 AAAGGAATCCAGTACGGCAGCCCATCAGGGGCTGGGAATGTGGCTTCAGGCTCAGGGAATAACTCGGG  
 GGACCCAGCCTCTTGGTGCCTGCTGTAATCCCCCAGTTCTCCAACGCCAGCTTCAGTGAAGCCA  
 AGGCAGCTGGTACCCTGCTTAATGGTCTCCACAGTTCAGCACCACCCAGAAATCAAGGCCCTGAACC  
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 TTACACCTAACTGATCGAGACATCATCCTGAGCAGCACATCAGCACCACCCACCTCATCCCAGCCACCC  
 TGCAGCTGTGAGAGTGAACATACCATTGCTCACTGGGTGTCTGTCCACTGGGGCCAGTTTCCCTACCAA  
 GGAGCAGCTATACCAACAGGCCATGGAAGAGGCCGCTGGCACCACATGCCCCACCCCTCTGACTCCGAG  
 CGCATTGGCAGTACCTCCCCGGAAACCTTGGCCGACACCCCTTACCACCACCCAGATGCCACCCCCAC  
 ACTCGGACACTGTGGAGTTCTACCAGCGCTGTCAACTGAGACGCTCTTCTTCACTTTCTACTATCTGGA  
 GGAACCAAGGCACAGTACTTGGCAGCCAAGGCCCTAAAGAAGCAGTCTGGCGATTCCACACCAAGTAT  
 ATGATGTGGTTCCAGAGGCACGAGGAGCCTAAGACCATCACAGATGAGTTTGAGCAGGGCACCTACATCT  
 ACTTTGACTACGAGAAGTGGGGCCAGCGGAAGAAGGAAGGCTTACCTTTGAGTACCGCTACCTGGAGGA  
 CCGGGACCTCCAG

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA

**Protein Sequence:** >MG210463 representing NM\_146176  
Red=Cloning site Green=Tags(s)

```
MADKRKLQGEIDRCLKKVSQVEQFEDIWQKLHNAANANQKEKEYEADLKKEIKKLQRLRDQIKTWASNE
IKDKRQLIENRKL IETQMERFKVVERETKTKAYSKEGLGLAQKVDPAQKEKEEVGQWL TNTIDTLNMQVD
QFSEVESLSVQTRKKKGDKDKQDRIEGLKRHIEKHRYHVRMLETILRMLDND SILVDAIRKIKDDVEYY
VDSSQDPDFEENEFLYDDL DLEDIPQALVATSPPSHSHMEDEIFNQSSSTPTSTTSSSPIPPSPANCTTE
NSEDDKKRGRSTDSEVSQSPAKNGSKPVHSNQHPQSPAVPPTYPSGPPPTTSALSSSTPGNNGASTPAAPT
SALGPKASPAPSHNSGTPAPYAQAVAPPNASGPSNAQPRPPSAQPSGGSGGGSSNSNSGTGGGAGK
QNGATSYSSVVADSPA E VTLSSSGSSASSQALGPTSGPHNPAPSTSKESSTAAPSGAGN VASGSGNNSG
GPSLLVPLPVNPPSSPTPSFSEAKAAGTLLNGPPQFSTTPEIKAPEPLSSLK SMAERAAISSGIEDPVPT
LHLDTRDIILSSTSAPPTSSQPPLQLSEVNIPLSLGVCPLGPVSLTKEQLYQQAMEEAAWHMHPHPSDSE
RIRQYLPRNPCPTPPYHHQMPPPHSDTVEFYQRLSTETLFFIFYYLEGTKAQYLAALKKKQSWRFHTKY
MMWFQRHEEPKITDEFEQGTIYFDYEKWKQRKKEGFTFEYRYLEDRLDQ
```

TRTRPLE - GFP Tag - V

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_146176

**ORF Size:** 2253 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\\_146176.3](#), [NP\\_666288.1](#)

**RefSeq Size:** 2923 bp

**RefSeq ORF:** 2256 bp

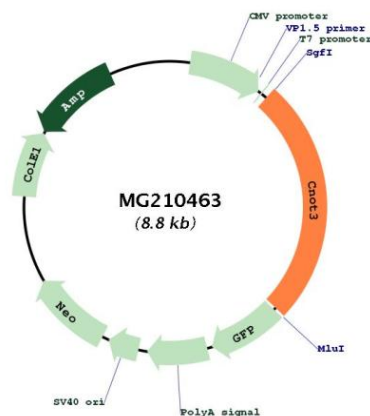
**Locus ID:** 232791

**UniProt ID:** [Q8K0V4](#)

**Cytogenetics:** 7 A1

**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; prevents their differentiation towards extraembryonic trophoctoderm lineages.[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MG210463