

## Product datasheet for **MR210463**

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

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cnot3 (NM_146176) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnot3
Synonyms:	A930039N10Rik
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide  
Sequence:

>MR210463 representing NM\_146176  
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCCGCGATCGCC

ATGGCGGACAAGCGCAAACCTCCAAGGTGAGATTGATCGCTGCCTCAAGAAGGTGTCCGAAGGGTGGAGC  
AGTTTGAAGATATTTGGCAAAAGCTCCACAATGCAGCCAACGCGAACAGAAAGAAAAGTATGAGGCTGA  
CCTAAAGAAGGAGATTAAGAAGCTACAACGGCTGAGGGACCAGATCAAGACATGGGTAGCATCAAATGAG  
ATCAAGGACAAAAGGCGCTTATTGAAAACCGCAAGCTCATTGAGACGAAATGGAACGGTTCAAAGTTG  
TGAACGAGAGACAAAACCAAAGCGTATAGCAAGGAGGGTCTGGGTCTGGCTCAGAAGGTGGATCTGC  
CCAGAAGGAGAAGGAAGAAGTTGGCCAGTGGCTCACGAACACCATTGACACCTTAAATATGCAGGTGGAC  
CAGTTTGAGAGTGAAGTGGAGTCACTGTCGGTACAGACACGCAAGAAGAAAGGCGACAAGGATAAGCAGG  
ACCGGATTGAGGGCTTGAAGCGCATATCGAGAAGCACCCTACCATGTTTCGATGCTGGAGACCATCCT  
GGCAATGCTGGACAATGACTCCATCCTGGTTGATGCCATCCGCAAGATCAAGGATGATGTGGAGTACTAC  
GTTGACTCATCCCAGGACCCCGACTTTGAAGAGAACGAATTCCTCTATGACGACCTGGACCTCGAGGACA  
TTCCACAGGCGCTGGTCCGACCTCCCCCCCCAGCCACAGCCACATGGAGGACGAGATCTTCAACCAGTC  
TAGCAGTACACCCACCTCAACAACCTCCAGCTCTCCCATCCCACCCAGCCAGCAAACTGCACTACGGAA  
AACTCTGAAGATGATAAGAAGAGAGGGCCGATCTACAGATAGTGAAGTCAAGCCAGTCTCCAGCCAAAAATG  
GCTCCAAGCCTGTCCACAGCAACCAGCACCCCGCTCCAGCTGTGCCGCCACCTACCCCTCTGGCCC  
CCCACCTACCCTTCTGCCTTGAGCTCCACCCCTGGCAACAATGGGGCCTTACCCAGCAGCACCTACA  
AGTGCCCTGGGCCCTAAGGCCAGTCCAGCTCCAGCCACAACCTCGGGTACTCTGCACCCATGCCAGG  
CTGTGGCCCCACCTAATGCCAGCGGGCCAGCAATGCCAGCACGCCCCCAGTCCCAAGCCGCAAGCGG  
GGGAAGTGGTGGTGGCAGCGGAGGGAGCAGCAATAGTAACAGTGGCACAGGCGGAGGGCTGGCAAG  
CAGAACGGTGCCACAAGCTATAGTTCGGTTGTGGCAGACAGCCCTGCAGAGGTGACCCTGAGTAGCAGTG  
GGGGCAGCAGTGCCAGCAGCCAAGCCCTTGGGCCACTTCGGGCCCTCACAACCCAGCTCCAGCACCTC  
AAAGGAATCCAGTACGGCAGCCCATCAGGGGCTGGGAATGTGGCTTCAGGCTCAGGGAATAACTCGGG  
GGACCCAGCCTCTTGGTGCCACTGCCTGTAATCCCCCAGTTCTCCAACGCCAGCTTCAGTGAAGCCA  
AGGCAGCTGGTACCCTGCTTAATGGTCTCCACAGTTCAGCACCACCCAGAAATCAAGGCCCTGAACC  
ACTCAGCTCTCTGAAATCCATGGCAGAACGGCCAGCTATCAGCTCTGGTATTGAGGACCTGTGCCAACG  
TTACACCTAACTGATCGAGACATCATCCTGAGCAGCACATCAGCACCACCCACCTCATCCCAGCCACCC  
TGCAGCTGTGAGAGTGAACATACCATTGTCAGTGGGTGTCTGTCCACTGGGGCCAGTTTCCCTCACAA  
GGAGCAGCTATACCAACAGGCCATGGAAGAGGCCGCTGGCACCACATGCCCCACCCCTCTGACTCCGAG  
CGCATTGGCAGTACCTCCCCGGAAACCTTGGCCGACACCCCTTACCACCACCAGATGCCACCCCCAC  
ACTCGGACACTGTGGAGTTCTACCAGCGCTGTCAACTGAGACGCTCTTCTTCACTTTCTACTATCTGGA  
GGGAACCAAGGCACAGTACTTGGCAGCCAAGGCCCTAAAGAAGCAGTCTGGCGATTCCACACCAAGTAT  
ATGATGTGGTTCCAGAGGCACGAGGAGCCTAAGACCATCACAGATGAGTTTGAGCAGGGCACCTACATCT  
ACTTTGACTACGAGAAGTGGGGCCAGCGGAAGAAGGAAGGCTTACCTTTGAGTACCGCTACCTGGAGGA  
CGGGACCTCCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:** >MR210463 representing NM\_146176  
Red=Cloning site Green=Tags(s)

MADKRKLQGEIDRCLKKVEQFEDIWQKLHNAANANQKEKYEADLKEIKKLQRLRDQIKTWASNE  
 IKDKRQLIENRKL IETQMERFKVVERETKTKAYSKEGLGLAQKVDPAQKEKEEVGQWL TNTIDTLNMQVD  
 QFESEVESLSVQTRKKKGDKDKQDRIEGLKRHIEKHRYHVRMLETILRMLDND SILVDAIRKIKDDVEYY  
 VDSSQDPDFEENEFLYDDL DLEDIPQALVATSPSSHMEDEIFNQSSSTPTSTTSSSPIPPSPANCTTE  
 NSEDDKKRGRSTDSEVSQSPAKNGSKPVHSNQHPQSPAVPPTYPSGPPPTTSALSSTPGNNGASTPAAPT  
 SALGPKASPAPSHNSGTPAPYAQAVAPPNASGPSNAQPRPPSAQPSGGSGGGSSNSNSGTGGGAGK  
 QNGATSYSSVVADSPAEVTLSSSGSSASSQALGPTSGPHNPAPSTSKESSTAAPSGAGNVASGSGNNSG  
 GPSLLVPLPVNPPSSPTPSFSEAKAAGLLNGPPQFSTTPEIKAPEPLSSLK SMAERAAISSGIEDPVPT  
 LHLTDRDIILSSTSAPPTSSQPPLQLSEVNIPLSLGVCPLGPVSLTKEQLYQQAMEEAAWHHMPHSDSE  
 RIRQYLPRNPCPTPPYHHQMPPHSDTVEFYQRLSTETLFFIFYYLEGTKAQYLAALKKKQSWRFHTKY  
 MMWFQRHEEPKITDEFEQGTIYFDYEKWKQRKKEGFTFEYRYLEDRLQ

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mm9040\\_c04.zip](https://cdn.origene.com/chromatograms/mm9040_c04.zip)

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_146176

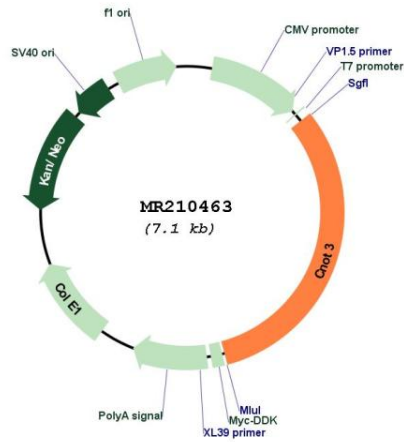
**ORF Size:** 2253 bp

**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.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u>NM_146176.3, NP_666288.1</u>
<b>RefSeq Size:</b>	2923 bp
<b>RefSeq ORF:</b>	2256 bp
<b>Locus ID:</b>	232791
<b>UniProt ID:</b>	<u>Q8K0V4</u>
<b>Cytogenetics:</b>	7 A1
<b>MW:</b>	82.4 kDa
<b>Gene Summary:</b>	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 trophectoderm lineages.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210463