

## Product datasheet for **MC218440**

### **Cnot2 (NM\_001037846) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cnot2 (NM_001037846) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cnot2
Synonyms:	2600016M12Rik; 2810470K03Rik; AA537049; AA959607; AW557563; C79650
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**Fully Sequenced ORF:** >MC218440 representing NM\_001037846  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGTGAGGACTGATGGACATACATTATCTGAGAAAAGAACTACCAGGTGACAAACAGCATGTTTGGTG  
 CTTCAAGAAAGAAGTTTGTAGAGGGGGTGACAGCGACTACCATGATGAGAACATGACTACAGCCAGTC  
 TTCTATGTTCCACATCGGTGAGAGAAAGATATGCTGGCATCGCCATCTACGTCAGGTGAGTCTCTCAA  
 TTTGGGGCAAGTTTATACGGGCAACAAAGTGCCTAGGCCTTCCAATGAGGGGGATGAGCAACAATACCC  
 CTCAGTTAAATCGCAGCTTATCACAAGGCACTCAGTTACCGAGCCACGTCACGCCAACACAGGGGTACC  
 AACATGTCACCTCACACGCCTCCATCTCCAAGCAGGGGTATTTTGCCTATGAATCTAGGAATATGATG  
 AACCACTCCCAGGTTGGTCAGGGCATTGGAATTCCTAGCAGGACAAATAGCATGAGCAGTTCAGGGTTAG  
 GTAGCCCCAACAGAAGCTCGCCAAGCATAATATGTATGCCAAAGCAACAGCCTTCTCGACAGCCTTTTAC  
 TGTGAACAGTATGCTGGATTTGGAATGAACAGGAATCAGGCATTTGGAATGAATAACTCCTTATCAAGT  
 AACATTTTTAATGGAACAGATGGCAGTAAAATGTGACAGGATTGGACCTTTCAGATTTCCAGCGTTAG  
 CTGACCCGAATAGAAGGGGAGGGAGCGGCAACCAACTCCATTAATAAACCCCTTGGCTGGAAGAGCTCC  
 TTACGTTGGAATGGTAACAAAACCTGCAATGAGCAATCCAAGACTTCTCAATACACAACGAAGATTTT  
 CCAGCATTACCTGGTTCCAGCTATAAAGATCCAACGTCAAGTAATGACGACAGCAAACTAATTTGAGTA  
 CATCGGGGAGACGACTTCAAGTACAGATGGACCCAAATCCCTGGAGATAAAAGTTCAACAACACAAAA  
 CAATAATCAACAGAAAAAGGGGATCCAGGTGTACCTGATGGTCGAGTTACTAACATTCCTCAAGGGATG  
 GTGACGGACCAATTTGGAATGATTGGCCTGTTAACATTTATCAGGGCAGCAGAGACAGCCAGGAATGG  
 TACATCTTGCTTAGGAAGTGACTTAACAACATTAGGCCTCAATCTGAACTCACCTGAAAACTCTATCC  
 CAAATTTGCATCACCTGGGCTTCTTACCTTGTGCGCCTCAAGACATAGACTTCCATGTTCCATCAGAA  
 TATTTAACAAACATTACATTAGGGATAAGCTGGCTGCAATCAAACCTGGCCGATATGGAGAAGACCTCC  
 TCTTCTATCTGTATTACATGAACGGCGGGGATGTATTACAACCTTAGCTGCGGTAGAACTTTTTAACCG  
 TGATTGGAGATACCACAAGGAGGAGCGGGTATGGATTACCAGGGCACCAGGCATGGAGCCAACAATGAAA  
 ACCAACACGTATGAGCGGGGACCTACTATTTCTTTGACTGTCTCAACTGGAGGAAAGTAGCTAAGGAGT  
 TCCATCTGGAATATGACAAATTAGAAGAGCGGCCTCACCTGCCATCCACCTTCAACTACAACCTGCTCA  
 GCAAGCCTT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_001037846

**Insert Size:** 1623 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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\\_001037846.3](#), [NP\\_001032935.2](#)

**RefSeq Size:** 2816 bp

**RefSeq ORF:** 1623 bp

**Locus ID:** 72068

**UniProt ID:** [Q8C5L3](#)

**Cytogenetics:** 10 D2

**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. Required for the CCR4-NOT complex structural integrity. Can repress transcription and may link the CCR4-NOT complex to transcriptional regulation; the repressive function may specifically involve the N-Cor repressor complex containing HDAC3, NCOR1 and NCOR2. Involved in the maintenance of embryonic stem (ES) cell identity; prevents their differentiation towards extraembryonic trophectoderm lineages.  
[UniProtKB/Swiss-Prot Function]

Transcript Variant: This variant (1) represents the longest transcript and encodes isoform a.