

## Product datasheet for **MC217017**

### **Cnot2 (NM\_028082) Mouse Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Cnot2 (NM_028082) 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:** >MC217017 representing NM\_028082  
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGCC**

ATGGTGAGGACTGATGGACATACATTATCTGAGAAAAGAACTACCAGATGCTGGCATCGCCATCTACGT  
 CAGGTCAGCTGTCTCAATTTGGGGCAAGTTTATACGGGCAACAAAGTGCCTAGGCTTCCAATGAGGGG  
 GATGAGCAACAATACCCCTCAGTTAAATCGCAGCTTATCACAAGCACTCAGTTACCGAGCCACGTCACG  
 CCAACAACAGGGGTACCAACAATGTCACCTCACACGCCTCCATCTCCAAGCAGGGGTATTTTGCCTATGA  
 ATCCTAGGAATATGATGAACCACTCCCAGGTTGGTCAGGGCATTGGAATTCCTAGCAGGACAAATAGCAT  
 GAGCAGTTCAGGGTTAGGTAGCCCCAACAGAAGCTCGCCAAGCATAATATGTATGCCAAAGCAACAGCCT  
 TCTCGACAGCCTTTTACTGTGAACAGTATGTCTGGATTTGGAATGAACAGGAATCAGGCATTTGGAATGA  
 ATAACCTCTTATCAAGTAACATTTTAAATGGAACAGATGGCAGTAAAAATGTGACAGGATTGGACCTTTC  
 AGATTTCCAGCGTTAGCTGACCGGAATAGAAGGGAAGGGAGCGGCAACCCAACCTCATTAAATAACCCC  
 TTGGCTGGAAGAGCTCCTTACGTTGGAATGGTAACAAAACCTGCAATGAGCAATCCAAGACTTCTCAA  
 TACACAACGAAGATTTTCCAGCATTACCTGGTTCCAGCTATAAAGATCCAACGTCAAGTAATGACGACAG  
 CAAATCTAATTTGAGTACATCGGGGAAGACGACTTCAAGTACAGATGGACCCAAATTCCTGGAGATAAA  
 AGTTCAACAACACAAAACAATAATCAACAGAAAAGGGGATCCAGGTGTTACCTGATGGTCGAGTTACTA  
 ACATTCCTCAAGGGATGGTGACGGACCAATTTGGAATGATTGGCCTGTTAACATTTATCAGGGCAGCAGA  
 GACAGACCCAGGAATGGTACATCTTGCTTTAGGAAGTACTTAAACATTAGGCCTCAATCTGAACTCA  
 CCTGAAAATCTCTATCCCAAATTTGCATCACCTGGGCTTCTTACCTTGTGCGCCTCAAGACATAGACT  
 TCCATGTTCCATCAGAATATTTAACAAACATTACATTAGGGATAAGCTGGCTGCAATCAAACCTGGCCG  
 ATATGGAGAAGACCTCCTCTTCTATCTGTATTACATGAACGGCGGGGATGTATTACAACCTTAGCTGCG  
 GTAGAACTTTTTAACCGTGATTGGAGATACCACAAGGAGGAGCGGGTATGGATTACCAGGGCACCAGGCA  
 TGGAGCCAACAATGAAAACCAACACGTATGAGCGGGGACCTACTATTTCTTTGACTGTCTCAACTGGAG  
 GAAAGTAGCTAAGGAGTTCATCTGGAATATGACAAAATAGAAGAGCGGCCTCACCTGCCATCCACCTTC  
 AACTACAACCCTGCTCAGCAAGCCTT**TAA**

**ACGGT**ACGGCGCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** Sgfl-Mlul

**ACCN:** NM\_028082

**Insert Size:** 1500 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\\_028082.2](#), [NP\\_082358.2](#)

**RefSeq Size:** 2693 bp

**RefSeq ORF:** 1500 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 (3) lacks an alternate in-frame exon in the 5' coding region, compared to variant 1, resulting in an isoform (b) that is shorter than isoform 1.