

Product datasheet for **MR223703**

Cnot2 (NM_028082) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnot2 (NM_028082) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnot2
Synonyms:	2600016M12Rik; 2810470K03Rik; AA537049; AA959607; AW557563; C79650
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR223703 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGTGAGGACTGATGGACATACATTATCTGAGAAAAGAACTACCAGATGCTGGCATCGCCATCTACGT
 CAGGTCAGCTGTCTCAATTTGGGGCAAGTTTATACGGGCAACAAAGTGCCTAGGCTTCCAATGAGGGG
 GATGAGCAACAATACCCCTCAGTTAAATCGCAGCTTATACAAGCACTCAGTTACCGAGCCACGTCACG
 CCAACAACAGGGGTACCAACAATGTCACCTCACACGCCTCCATCTCCAAGCAGGGGTATTTTGCCTATGA
 ATCCTAGGAATATGATGAACCACTCCCAGGTTGGTCAGGGCATTGGAATTCCTAGCAGGACAAAATAGCAT
 GAGCAGTTCAGGGTTAGGTAGCCCCAACAGAAGCTCGCCAAGCATAATATGTATGCCAAAGCAACAGCCT
 TCTCGACAGCCTTTTACTGTGAACAGTATGTCTGGATTGGAATGAACAGGAATCAGGCATTTGGAATGA
 ATAACCTCTTATCAAGTAACATTTTAAATGGAACAGATGGCAGTAAAAATGTGACAGGATTGGACCTTTC
 AGATTTCCAGCGTTAGCTGACCGGAATAGAAGGGAAGGGAGCGGCAACCCAACCTCATTAAATAACCCC
 TTGGCTGGAAGAGCTCCTTACGTTGGAATGGTAACAAAACCTGCAATGAGCAATCCAAGACTTCTCAA
 TACACAACGAAGATTTTCCAGCATTACCTGGTTCCAGCTATAAAGATCCAACGTCAAGTAATGACGACAG
 CAAATCTAATTTGAGTACATCGGGGAAGACGACTTCAAGTACAGATGGACCCAAATTCCTGGAGATAAA
 AGTTCAACAACACAAAACAATAATCAACAGAAAAGGGGATCCAGGTGTTACCTGATGGTCGAGTTACTA
 ACATTCCTCAAGGGATGGTGACGGACCAATTTGGAATGATTGGCCTGTTAACATTTATCAGGGCAGCAGA
 GACAGACCCAGGAATGGTACATCTTGCTTTAGGAAGTACTTAAACATTAGGCCTCAATCTGAACTCA
 CCTGAAAATCTCTATCCCAAATTTGCATCACCTGGGCTTCTTACCTTGTGCGCCTCAAGACATAGACT
 TCCATGTTCCATCAGAATATTTAAACAACATTACATTAGGGATAAGCTGGCTGCAATCAAACTTGGCCG
 ATATGGAGAAGACCTCCTCTTCTATCTGTATTACATGAACGGCGGGGATGTATTACAACCTTAGCTGCG
 GTAGAACTTTTTAACCGTGATTGGAGATACCACAAGGAGGAGCGGGTATGGATTACCAGGGCACCAGGCA
 TGGAGCCAACAATGAAAACCAACACGTATGAGCGGGGACCTACTATTTCTTTGACTGTCTCAACTGGAG
 GAAAGTAGCTAAGGAGTTCATCTGGAATATGACAAAATAGAAGAGCGGCCTCACCTGCCATCCACCTTC
 AACTACAACCCTGCTCAGCAAGCCTTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR223703 protein sequence
 Red=Cloning site Green=Tags(s)

MVRTDGHTLSEKRNYQMLASPSTSGQLSQFGASLYGQQSALGLPMRGMNNTPQLNRSLSQGTQLPSHVT
 PTTGVPTMSLHTPPSPSRGILPMNPRNMNHSQVGQIGIPSRNTSMSSSGLGSPNRSSPSIICMPKQQP
 SRQPFVNSMSGFGMNRNQAFGMNLSLSSNIFNGTDGSENVTLGLDLDLDFPALADRNRREGSGNPTPLINP
 LAGRAPYVGMVTKPANEQSQDFSIHNEDFPALPGSSYKDPTSSNDDSKSNLSTSGKTTSSDGPKFPDGD
 SSTTQNNNQKKGIVLPDGRVTNIPQGMVTDQFGMIGLLTFIRAAETDPGMVHLALGSDLTTLGLNLNS
 PENLYPKFASPWASSPCRPQDIDFHVPSSEYL TNIHIRDKLAAIKLGRYGEDLLFYLYMNGGDVLLAA
 VELFNRDWRVYHKEERVWITRAPGMEPTMKTNTYERGTYYFFDCLNWRKVAKEFHLEVDKLEERPHLPSTF
 NYNPAQQAF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_028082

ORF Size: 1497 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_028082.2](#), [NP_082358.2](#)

RefSeq Size: 2693 bp

RefSeq ORF: 1500 bp

Locus ID: 72068

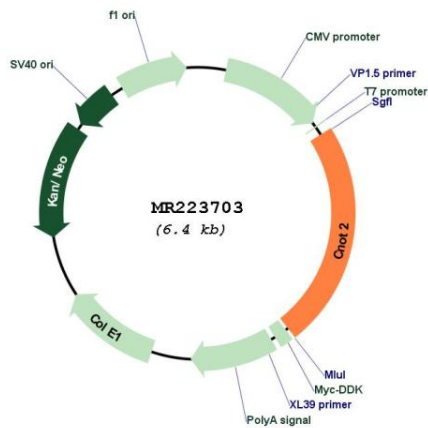
UniProt ID: [Q8C5L3](#)

Cytogenetics: 10 D2

MW: 54.9 kDa

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]

Product images:



Circular map for MR223703