

Product datasheet for MR221037

Cnot1 (NM_178078) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cnot1 (NM_178078) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cnot1
Synonyms: 6030411K04Rik; AA815922; D830048B13
Mammalian Cell Selection: Neomycin
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
ORF Nucleotide Sequence: >MR221037 representing NM_178078
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGAATCTTGACTCGCTCTCGCTGGCCTTGCTCAAATCAGCTACCTGGTGGACAATTTAACCAAGAAAA
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
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Protein Sequence: >MR221037 representing NM_178078
 Red=Cloning site Green=Tags(s)

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 FPEFLCDYHYGFCDVIPPNCIQLRNLILSAFPRNMRLPDPFTP NLKVDMLSEINIAPRILTNFTGMVPPQ
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 AHMDIFQNLAVDLDEGRYLF LNAIANQLRYPNSH THYF SCTMLYFAEANTEAIQEITRVLLERLIVN
 RPHPWGLLITFIELIKNPAFKFWNHEFVHCAPEIEKLFQSV AQCCMGQKQAQQVMEGTGAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

Cloning Scheme:


ACCN: NM_178078

ORF Size: 7113 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_178078.3](#)

RefSeq Size: 8375 bp

RefSeq ORF: 7116 bp

Locus ID: 234594

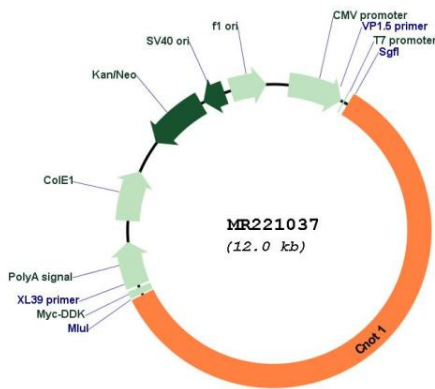
UniProt ID: [Q6ZQ08](#)

Cytogenetics: 8 D1

MW: 266.3 kDa

Gene Summary: Scaffolding 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. Its scaffolding function implies its interaction with the catalytic complex module and diverse RNA-binding proteins mediating the complex recruitment to selected mRNA 3' UTRs. Involved in degradation of AU-rich element (ARE)-containing mRNAs probably via association with ZFP36. Mediates the recruitment of the CCR4-NOT complex to miRNA targets and to the RISC complex via association with TNRC6A, TNRC6B or TNRC6C. Acts as a transcriptional repressor. Represses the ligand-dependent transcriptional activation by nuclear receptors. 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 MR221037