

Product datasheet for MR221036

Cnot1 (NM_153164) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cnot1 (NM_153164) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cnot1
Synonyms: 6030411K04Rik; AA815922; D830048B13
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR221036 representing NM_153164
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

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 ACTACCGAGCCAGCCAGCAGGAAATACAGCATATTGTGAATCGGCACGGTCTGAGGCAGACAGGCATTT
 ATTACGCTGCCTATTTTCACATGTGGATTTTCAGTGGCGATGGTAAAAGCAGTGGCAAAGATTTCCATCAG
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ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR221036 representing NM_153164
 Red=Cloning site Green=Tags(s)

MNLDLSLALSQISYLVNLTKKNYRASQQEIQHIVNRHGPEADRHLRCLFSHVDFSGDGKSSGKDFHQ
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 RRDFPQERCPVVLAPLLYPEKRDILMDRILPDSGGVAKTMMESSLADFMQEVGYGFCASIEECRNIIMQF
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 SLNFKEVTYELDHPGFQIRDSKGLHNVVYGIQRGLGMEVFPVDFIYRPWKHAEGQLSFIQHSLINPEVFC
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 FKKDLDSYLKTRSPVTFSLDLRSNLQVSNPEGNRYNLQLINALVYVGTQAIHAIHNKGSTPSMSTITHS
 AHMDIFQNLAVDLDEGRYFLNAIANQLRYPNSHSHYFSCMTMLYFAEANTEAIEQEITRFLQSVQAQCC
 MGQKQAQQVMEGTGAS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: Sgfl-MluI

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_153164.4](#)

RefSeq Size: 8391 bp

RefSeq ORF: 6981 bp

Locus ID: 234594

Cytogenetics: 8 D1

MW: 261.4 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]