

Product datasheet for MR203889

Cnot7 (NM_011135) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cnot7 (NM_011135) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnot7
Synonyms:	AU022737; CAF-1; Caf1; Pop2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203889 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGCCAGCAGCAACCGTAGATCATAGCCAAAGAATTTGTGAAGTTGGGCTTGTAACCTGGATGAAGAGA
TGAAGAAAATCCGTCAAGTTATCCGAAAATAAATTATGTTGCTATGGACACCGAGTTCCAGGCGTTGT
TGCAAGACCCATTGGAGAATTCAGAAGCAATGCTGACTATCAGTACCAACTGTTGCGGTGTAATGTAGAC
TTGTTAAAGATAATCCAGCTCGGACTGACCTTTATGAATGAACAGGGAGAATACCCTCCAGGAACGTCAA
CTTGCCAGTTTAACTTTAAGTTTAAATTTGACGGAGGACATGTATGCTCAGGACTCTATAGAGCTACTAAC
AACATCTGGTATCCAGTTTAAAAACACGAGGAGGAAGGAATTGAGACCAATATTTTGCAGAACTCTT
ATGACTTCAGGAGTGGTTCTTTGTGAAGGGTCAAATGGCTATCATTTCACAGTGGTTATGACTTTGGCT
ATTTAATCAAAATCTGACCAACTCTAACTTGCCTGAGGAAGAACTTGATTTCTTTGAGATCCTTCGGTT
ATTTTTCTGTGATTTATGATGTGAAGTACCTCATGAAGAGCTGCAAAAATCTCAAAGGTGGATTACAG
GAAGTTGCTGAGCAGTTAGAGCTGGAGCGCATAGGCCCTCAGCACCAGGCAGGATCTGACTACTGCTTA
CAGGAATGGCCTTTTTCAAATGAGAGAAATGTTCTTTGAAGATCACATTGATGATGCCAAATACTGTGG
TCACTTATATGGCCTTGGTTCTGGCTCATCCTATGTACAGAACGGCACAGGGAATGCATATGAAGAGGAA
GCCAGCAAGCAGTCA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR203889 protein sequence
Red=Cloning site Green=Tags(s)

MPAATVDHSQRICEVWACNLDEEMKKIRQVIRKYNVAMDTEFPGVVARPIGEFRSNADYQYQLLRNVN
 LLKIIQLGLTFMNEQGEYPPGTSTWQFNFKFNLTEDMYAQDSIELLTTSGIQFKKHEEGIETQYFAELL
 MTSGVVLCEGVKWL SFHSGYDFGYLIKILTNSNLP EEE LDFFEILRLFFPVIYDVKYLKMSCKNLKGG LQ
 EVAEQLELERIGPQH QAGSD SLLTGM AFFK MREMF FEDHIDDAKYCGHL YGLGSGSSYVQNGTGNAYEEE
 ASKQS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_011135

ORF Size: 858 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_011135.5](#)

RefSeq Size: 2617 bp

RefSeq ORF: 858 bp

Locus ID: 18983

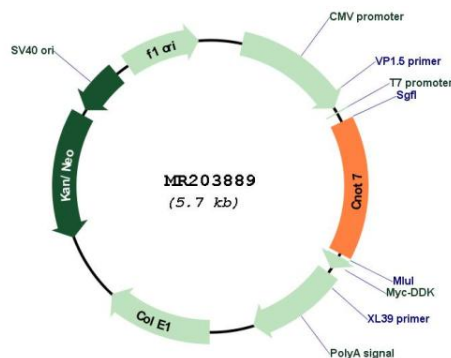
UniProt ID: [Q60809](#)

Cytogenetics: 8 A4

MW: 32.7 kDa

Gene Summary: Has 3'-5' poly(A) exoribonuclease activity for synthetic poly(A) RNA substrate. Its function seems to be partially redundant with that of CNOT8. Catalytic 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. During miRNA-mediated repression the complex seems also to act as translational repressor during translational initiation. Additional complex functions may be a consequence of its influence on mRNA expression. Required for miRNA-mediated mRNA deadenylation. Associates with members of the BTG family such as TOB1 and BTG2 and is required for their anti-proliferative activity.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR203889