

## Product datasheet for **MC226791**

### Cnot7 (NM\_001271542) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cnot7 (NM\_001271542) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cnot7  
**Synonyms:** AU022737; CAF-1; Caf1; Pop2  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC226791 representing NM\_001271542  
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGCCAGCAGCAACCGTAGATCATAGCCAAAGAATTTGTGAAGTTGGGCTTGTAACCTGGATGAAGAGA  
TGAAGAAAATCCGTCAAGTTATCCGAAAATATAATTATGTTGCTATGGACACCGAGTTCCAGGCGTTGT  
TGCAAGACCCATTGGAGAATTCAGAAGCAATGCTGACTATCAGTACCAACTGTTGCGGTGTAATGTAGAC  
TTGTTAAAGATAATCCAGCTCGGACTGACCTTTATGAATGAACAGGGAGAATACCCCTCCAGGAACGTCAA  
CTTGCCAGTTTAACTTTAAGTTAATTTGACGGAGGACATGTATGCTCAGGACTCTATAGAGCTACTAAC  
AACATCTGGTATCCAGTTTAAAAACACGAGGAGGAAGGAATTGAGACCCAATATTTTGCAGAACTTCTT  
ATGACTTCAGGAGTGGTTCTTTGTGAAGGGTCAAATGGCTATCATTTACAGTGGTTATGACTTTGGCT  
ATTTAATCAAAATTCGACCAACTCTAACTTGCCTGAGGAAGAACTTGATTTCTTTGAGATCCTTCGGTT  
ATTTTTCTGTCATTTATGATGTGAAGTACCTCATGAAGAGCTGCAAAAATCTCAAAGGTGATTACAG  
GAAGTTGCTGAGCAGTTAGAGCTGGAGCGCATAGGCCCTCAGCACCAGGCAGGATCTGACTACTGCTTA  
CAGGAATGGCCTTTTCAAATGAGAGAAATGTTCTTTGAAGATCACATTGATGATGCCAAATACTGTGG  
TCACTTATATGGCCTTGTTCTGGCTCATCCTATGTACAGAACGGCACAGGGAATGCATATGAAGAGGAA  
GCCAGCAAGCAGTCA**TGA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001271542  
**Insert Size:** 858 bp



<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_001271542.1</a></u> , <u><a href="#">NP_001258471.1</a></u>
<b>RefSeq Size:</b>	2546 bp
<b>RefSeq ORF:</b>	858 bp
<b>Locus ID:</b>	18983
<b>UniProt ID:</b>	<u><a href="#">Q60809</a></u>
<b>Cytogenetics:</b>	8 A4
<b>Gene Summary:</b>	<p>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]</p> <p>Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1, 2 and 4 encode the same isoform (1). Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>