

## Product datasheet for MR228768

### Cnot7 (NM\_001271543) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cnot7 (NM_001271543) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cnot7
Synonyms:	AU022737; CAF-1; Caf1; Pop2
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin
ORF Nucleotide Sequence:	>MR228768 representing NM_001271543 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGCCAGCAGCAACCGTAGATCATAGCCAAAGAATTTGTGAAGTTGGGCTTGTAACCTGGATGAAGAGA  
TGAAGAAAATCCGTCAAGTTATCCGAAAATATAATTATGTTGCTATGGACACCGAGTTCCAGGCGTTGT  
TGCAAGACCCATTGGAGAATTCAGAAGCAATGCTGACTATCAGTACCAACTGTTGCGGTGTAATGTAGAC  
TTGTTAAAGATAATCCAGCTCGGACTGACCTTTATGAATGAACAGGGAGAATACCCCTCCAGGAACGTCAA  
CTTGCCAGTTTAACTTTAAGTTAATTTGACGGAGGACATGTATGCTCAGGACTCTATAGAGCTACTAAC  
AACATCTGGTATCCAGTTTAAAAACACGAGGAGGAAGGAATTGAGACCCAATATTTTGCAGAACTTCTT  
ATGACTTCAGGAGTGGTCTTTGTGAAGGGTCAAATGGCTATCATTTACAGTGGTTATGACTTTGGCT  
ATTTAATCAAAATTCGACCAACTCTAACTTGCCTGAGGAAGAACTTGATTTCTTTGAGATCCTTCGGTT  
ATTTTTCTCCTGTCATTTATGATGTGAAGTACCTCATGAAGAGCTGCAAAAATCTCAAAATGTTCTTTGAA  
GATCACATTGATGATGCCAAATACTGTGGTCACCTATATGGCCTTGGTTCTGGCTCATCTATGTACAGA  
ACGGCACAGGGAATGCATATGAAGAGGAAGCCAGCAAGCAGTCA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



**Protein Sequence:** >MR228768 representing NM\_001271543  
 Red=Cloning site Green=Tags(s)

MPAATVDHSQRICEVWACNLDEEMKKIRQVIRKYNVAMDTEFPGVVARPIGEFRSNADYQYQLLRNVN  
 LLKIIQLGLTFMNEQGEYPPGTSTWQFNFKFNLTEDMYAQDSIELLTTSGIQFKKHEEGIETQYFAELL  
 MTSGVVLCEGVKWL SFHSGYDFGYLIKILTNSNLP EEELDFEILRLFFPVIYDVKYLKMSCKNLKMFEE  
 DHIDDAKYCGHLYGLSGSSYVQNGTGNAYEEEEASKQS

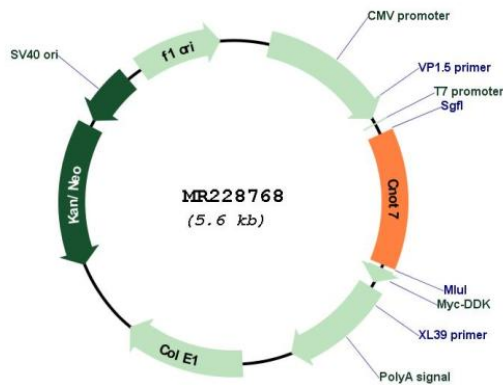
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:** Sgfl-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001271543  
**ORF Size:** 744 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<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>	<a href="#">NM_001271543.1</a> , <a href="#">NP_001258472.1</a>
<b>RefSeq Size:</b>	2506 bp
<b>RefSeq ORF:</b>	747 bp
<b>Locus ID:</b>	18983
<b>Cytogenetics:</b>	8 A4
<b>MW:</b>	29.1 kDa
<b>Gene Summary:</b>	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]