

## Product datasheet for MR203690

### Cops7a (NM\_012003) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cops7a (NM_012003) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cops7a
Synonyms:	D6ErtD35e; SGN7a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR203690 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGAGTGCGGAGGTGAAGGTGACAGGGCAGAACCAAGAGCAGTTTCTGCTCCTTGCCAAGTCGGCTAAGG  
GGGCGGCACTGGCCACACTCATCCACCAGGTGCTGGAGGCCCTGGTGTCTACGTGTTGGGGAAGTCTGCT  
GGATATGCCTAATGTTAGAGAGCTGGCAGAAAGCGACTTGCCTCCACCTCCGGCTGCTCACAGTGTTC  
GCCTATGGGACCTATGCGGACTACTTAGCTGAAGCCAGGAATCTCCCCCACTGACTGACGCACAGAAGA  
ATAAGCTTCGACATCTGTCAAGTGTCACTCTGGCTGCCAAAGTCAAGTGTATCCCATATGCAGTGTGCT  
GGAGGCCCTTGCCTTCGAAACGTGCGCCAGCTGGAAAGCCTTGTGATCGAGGCTGTGTATGCTGATGTC  
CTTCGTGGCTCTCTGGACCAGCGCAATCAGCGGCTAGAGGTTGATTACAGCATCGGGCGGGACATCCAGC  
GCCAGGACCTCAGTGCCATCGCCCCAGACCTGCAAGAGTGGTGCCTGGGCTGTGAGGTTGTGTTGTCGGG  
CATCGAAGAGCAGGTGAGCCGTGCCAACCCAGCACAAGGAGCAGCAGCTGGGCCTGAAGCAGCAGATCGAA  
AGTGAGGTTGCCAACCTTAAGAAAACCTAAAGTTACGACAGCAGCTGCTGCTGCAGCCACCTCCCAGG  
ATCCTGAGCAACACCTGACAGAGCTGAGAGAACCAGCTTCTGGCACAACCAGCGCCAGCCAGCAAGAA  
AGCCTCCAAGGGCAAGGGACTCCGAGGGAGCGCCAAGATTTGGTCCAAGTCAAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR203690 protein sequence  
 Red=Cloning site Green=Tags(s)

MSAEVKVTGQNQEQLLLAKSAKGAALATLIHQVLEAPGVYVFGELLDMPNVRELAESDFSTFRLLTVF  
 AYGTYADYLAEARNLPLTDAQNKLRHL SVVTLAAKVKCIPYAVLLEALALRNVRQLEDLVIEAVYADV  
 LRGSLDQRNQRLEVDYSIGRDIQRQDL SAI AQTLQEWCVGCEVVL SGIEEQVSRANQHKEQLGLKQQIE  
 SEVANLKKTIKVT TAAAAAATSQDPEQHL TELREPASGTNRQRP SKKASKGKGLRGS AKIWSKSN

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\_012003

**ORF Size:** 828 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\\_012003.4](#)

**RefSeq Size:** 1775 bp

**RefSeq ORF:** 828 bp

**Locus ID:** 26894

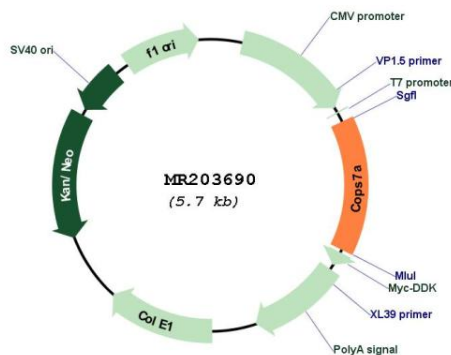
**UniProt ID:** [Q9CZ04](#)

**Cytogenetics:** 6 59.17 cM

**MW:** 30.2 kDa

**Gene Summary:** Component of the COP9 signalosome complex (CSN), a complex involved in various cellular and developmental processes. The CSN complex is an essential regulator of the ubiquitin (Ubl) conjugation pathway by mediating the deneddylation of the cullin subunits of SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. The complex is also involved in phosphorylation of p53/TP53, JUN, I-kappa-B-alpha/NFKBIA, ITPK1 and IRF8/ICSBP, possibly via its association with CK2 and PKD kinases. CSN-dependent phosphorylation of TP53 and JUN promotes and protects degradation by the Ubl system, respectively (By similarity).[UniProtKB/Swiss-Prot Function]

### Product images:



Circular map for MR203690