

Product datasheet for **MG218549**

Cops7a (NM_001164089) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cops7a (NM_001164089) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cops7a
Synonyms:	D6Ertd35e; SGN7a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG218549 representing NM_001164089 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGAGTGCGGAGGTGAAGGTGACAGGGCAGAACCAAGAGCAGTTTCTGCTCCTTGCCAAGTCGGCTAAGG
GGGCGGCACTGGCCACACTCATCCACCAGGTGCTGGAGGCCCTGGTGTCTACGTGTTGGGGAAGTCTGCT
GGATATGCCTAATGTTAGAGAGCTGGCAGAAAGCGACTTGCCTCCACCTCCGGCTGCTCACAGTGTTC
GCCTATGGGACCTATGCGGACTACTTAGCTGAAGCCAGGAATCTCCCCCACTGACTGACGCACAGAAGA
ATAAGCTTCGACATCTGTCAGTTGTCACCTGGCTGCCAAAGTCAAGTGTATCCCATATGCAGTGTGCT
GGAGGCCCTTGCCCTTCGAAACGTGCGCCAGCTGGAAAGACCTTGTGATCGAGGCTGTGTATGCTGATGTC
CTTCGTGGCTCTCTGGACCAGCGCAATCAGCGGCTAGAGGTTGATTACAGCATCGGGCGGGACATCCAGC
GCCAGGACCTCAGTGCCATCGCCCAGACCTGCAAGAGTGGTGCCTGGGCTGTGAGGTTGTGTTGTCGGG
CATCGAAGAGCAGGTGAGCCGTGCCAACCCAGCACAAGGAGCAGCAGCTGGGCCTGAAGCAGCAGATCGAA
AGTGAGGTTGCCAACCTTAAGAAAACCTAAAGTTACGACAGCAGCTGCTGCTGCAGCCACCTCCCAGG
ATCCTGAGCAACACCTGACAGAGCTGAGAGAACCAGCTTCTGGCACAACCAGCGCCAGCCAGCAAGAA
AGCCTCCAAGGGCAAGGGGGAGAAGATTAATCCCCAGTCCACTGTAAAGCCAAGTGCCAAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG218549 representing NM_001164089
 Red=Cloning site Green=Tags(s)

MSAEVKVTGQNQEQLLLAKSAKGAALATLIHQVLEAPGVYVFGELLDMPNVRELAESDFASTFRLLTVF
 AYGTYADYLAEARNLPLTDAQKNKLRHLSVVTLAAKVKCIPYAVLLEALALRNVRQLEDLVIEAVYADV
 LRGLDQRNQRLEVDYSIGRDIQRQDL S AIAQTLQEWCVGCEVVL SGIEEQVSRANQHKEQQLGLKQQIE
 SEVANLKKTIKVT TAAAAAATSQDPEQHL TELREPASGTNQRQPSKKASKGKGEKINPQSTVKPSAK

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_001164089

ORF Size: 831 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_001164089.3](#)

RefSeq Size: 1327 bp

RefSeq ORF: 834 bp

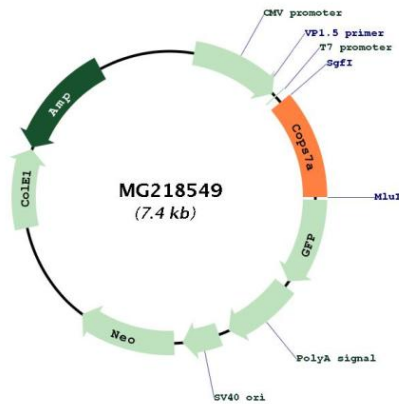
Locus ID: 26894

UniProt ID: [Q9CZ04](#)

Cytogenetics: 6 59.17 cM

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 MG218549