

## Product datasheet for **RC203441**

### COPS4 (NM\_016129) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COPS4 (NM_016129) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	COPS4
Synonyms:	CSN4; SGN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC203441 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCAGCCGTGCGACAGGATTTGGCCAGCTCATGAATTCGAGCGGCTCTCATAAAGATCTGGCTG  
GCAAGTATCGTCAGATCCTGAAAAAGCCATTAGTTATCTGGAGCAGAACAAGTAAAGCTTTGAAAGC  
TTTTGTGGAAGCAATGGTAAATGAGAATGTCAGTCTCGTGATCTCGCGGCAGTTGCTGACTGATTTTTGC  
ACACATCTTCTAACTTGCTGATAGCACAGCCAAAGAAATCTATCACTTACCTTGAAAAAGATCCAGC  
CTAGAGTCATTTTCACTTGGAGGAGCAGTTGCTTCCATAAGACAGCATCTTGCATCTATATGAGAAAGA  
AGAAGATTGGAGAAATGCAGCCCAAGTGTGGTGGGAATTCCTTTGGAACAGGACAAAAACAGTACAAT  
GTAGATTATAAACTGGAGACTTACTTGAAGATTGCTAGGCTATATCTGGAGGATGATGATCCAGTCCAGG  
CAGAGGCTTACATAAAATCGAGCATCGTTGCTTCCAGAATGAATCAACCAATGAACAATTACAGATACATTA  
TAAGGTATGCTATGCACGTGTTCTTGATTATAGAAGAAAATTCATTGAAGCTGCACAAAGGTACAATGAG  
CTCTCTTACAAGACAATAGTCCACGAAAGTAAAGACTAGAGGCCTTAAAAATGCTTTGCACTGTACGA  
TCTTAGCATCAGCAGGGCAGCAGCGTTCTCGGATGCTAGTACTCTTTTTAAGGATGAAAGGTGCCAGCA  
ACTTGTGCCTATGGGATCCTAGAGAAAATGTATCTAGATAGGATCATCAGAGGAAATCAACTTCAAGAA  
TTTGTGCCATGCTGATGCCTCACCAAAAAGCAACTACAGCTGATGGTTCCAGCATCTTGGACAGAGCTG  
TTATTGAACACAATTTGTTGCTGCAAGCAAATATATAAATATTACCTTCGAAGAAGTGGAGCTCT  
TTTAGAGATCCCTGCAGCTAAGGCGGAAAAAGATAGCATCTCAAATGATAACCGAAGGACGTATGAATGGA  
TTTATTGACCAGATTGATGGAATAGTTCAATTTTGAACACGAGAAGCCCTGCCAACGTGGGATAAGCAGA  
TCCAATCACTTTGTTTCCAAGTGAATAACCTTTTGGAGAAAATAGTCAAACAGCACCAGAATGGACAGC  
ACAAGCCATGGAAGCCAGATGGCTCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC203441 protein sequence  
Red=Cloning site Green=Tags(s)

MAAAVRQDLAQLMNSSGSHKDLAGKYRQILEKAIQLSGAEQLEALKAFVEAMVNEVSLVISRQLLTDFC  
 THLPNLPDSTAKEIYHFLEKIQPRVISFEEQVASIRQHLASIYEKEEDWRNAAQVLVGIPLTGQKQYN  
 VDYKLETYLKIARLYLEDDDPVQAEAYINRASLLQNESTNEQLQIHYKVCYARVLDYRRKFIEAAQRYNE  
 LSYKTIHVHESERLEALKHALHCTILASAGQQRSRMLATLFKDERCQQLAAYGILEKMYLDRIRGNLQE  
 FAAMLMPHQKATTADGSSILDRAVIEHNLLSASKLYNNITFEELGALLEIPAAKAEKIASQMITEGRMNG  
 FIDQIDGIVVHFETREALPTWDKQIQSLCFQVNNLLEKISQTAPEWTAQAMEAQMAQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6154\\_f11.zip](https://cdn.origene.com/chromatograms/mk6154_f11.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_016129

**ORF Size:** 1218 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\\_016129.3](#)

**RefSeq Size:** 1765 bp

**RefSeq ORF:** 1221 bp

**Locus ID:** 51138

**UniProt ID:** [Q9BT78](#)

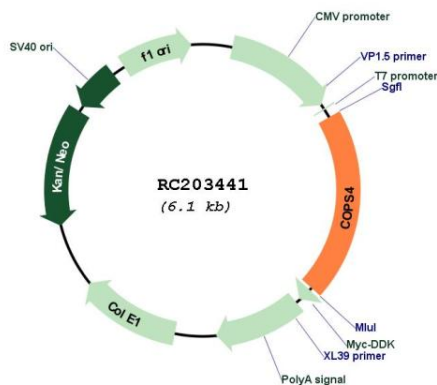
**Cytogenetics:** 4q21.22

**Domains:** PCI

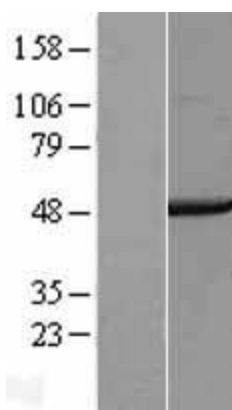
**MW:** 46.3 kDa

**Gene Summary:** This gene encodes one of eight subunits composing COP9 signalosome, a highly conserved protein complex that functions as an important regulator in multiple signaling pathways. The structure and function of COP9 signalosome is similar to that of the 19S regulatory particle of 26S proteasome. COP9 signalosome has been shown to interact with SCF-type E3 ubiquitin ligases and act as a positive regulator of E3 ubiquitin ligases. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Apr 2012]

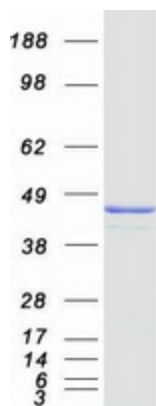
### Product images:



Circular map for RC203441



Western blot validation of overexpression lysate (Cat# [LY402507]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC203441 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).



Coomassie blue staining of purified COPS4 protein (Cat# [TP303441]). The protein was produced from HEK293T cells transfected with COPS4 cDNA clone (Cat# RC203441) using MegaTran 2.0 (Cat# [TT210002]).