

## Product datasheet for **MC227009**

### Cops2 (NM\_001285512) Mouse Untagged Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Cops2 (NM\_001285512) Mouse Untagged Clone  
**Tag:** Tag Free  
**Symbol:** Cops2  
**Synonyms:** AI315723; C85265; Csn2; Sgn2; TRIP-15; Trip15  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**Fully Sequenced ORF:** >MC227009 representing NM\_001285512  
**Red=Cloning site Blue=ORF Orange=Stop codon**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGGATTTACTGCAGGAATTTTATGAAACAACACTGGAAGCTTTGAAAGATGCTAAGAATGATAGACTGT  
GGTTTAAGACAAACACAAAGCTTGAAAAATTATTTAGAACGAGAAGAATATGGAAAGCTTCAAAAAAT  
TTACGACAGTTACATCAGTCTTGTGCACTGATGATGGAGAAGATGACCTGAAAAAAGGTACCCAGTTA  
TTAGAAATCTATGCTTTGGAAATTCAAATGTACACTGCACAGAAGAACAACAAAAAGCTTAAAGCACTCT  
ATGAGCAATCACTTCACATCAAGTCTGCCATCCCTCACCCACTAATCATGGGTGTCATCAGAGAATGCGG  
TGGTAAGATGCACCTTGAGAGAAGGTGAATTTGAAAAGGCACACTGATTTTTTTGAAGCCTTCAAGAAT  
TATGATGAATCAGGAAGCCCAAGACGAACCACTTGTTAAAAATTTGGTTTTAGCAAATATGCTAATGA  
AATCAGGAATAAATCCGTTTGACTCACAAAGAGGCCAAGCCGTAAAAATGATCCAGAAATCTAGCAAT  
GACAAATTTAGTAAGTGCCTATCAGAATAATGACATCACTGAATTTGAAAAGATTCTGAAAACAAATCAC  
AGCAACATCATGGATGATCCTTTTCATAAGAGAGCACATTGAAGAACTTTTACGAAACATCAGAACACAAG  
TCCTCATAAAGTTAATTAAGCCTTACACAAGAATACATATTCCTTTTATTCTAAGGAGCTAAACATAGA  
CGTAGCTGATGTGGAGAGCTTGCTGGTGCAGTGCATACTGGATAACACTATTCATGGCCGAATTGATCAA  
GTCAACCACTCCTTGAAGTGGATCATCAGAAGAGGGGTGGTGCCTGATACACTGCGCTAGATAAATGGA  
CCAACCACTAAATTCTCTGAACCAAGGCTGTGGTCACTAACTGGCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA

**Restriction Sites:** SgfI-MluI  
**ACCN:** NM\_001285512  
**Insert Size:** 960 bp



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<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>	<a href="#">NM_001285512.1</a> , <a href="#">NP_001272441.1</a>
<b>RefSeq Size:</b>	3380 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	12848
<b>UniProt ID:</b>	<a href="#">P61202</a>
<b>Cytogenetics:</b>	2 61.76 cM
<b>Gene Summary:</b>	<p>Essential 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, c-jun/JUN, IκappaBalpha/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. Involved in early stage of neuronal differentiation via its interaction with NIF3L1.[UniProtKB/Swiss-Prot Function]</p> <p>Transcript Variant: This variant (3) differs in the 5' UTR, lacks a portion of the 5' coding region, and initiates translation at a downstream start codon compared to variant 1. The encoded isoform (c) is shorter than isoform a. Variants 3 and 4 encode the same protein.</p>