

## Product datasheet for MC227010

### Cops2 (NM\_001285513) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cops2 (NM_001285513) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Cops2
Synonyms:	AI315723; C85265; Csn2; Sgn2; TRIP-15; Trip15
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>MC227010 representing NM_001285513 Red=Cloning site Blue=ORF Orange=Stop codon

TTTGTGAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGATCGC**C

ATGGATTTACTGCAGGAATTTTATGAAACAACACTGGAAGCTTTGAAAGATGCTAAGAATGATAGACTGT  
 GGTAAAGACAAACACAAAGCTTGAAAAATTATTTAGAACGAGAAGATATGGAAGCTTCAAAAAAT  
 TTTACGACAGTTACATCAGTCTTGTCAGACTGATGATGGAGAAGATGACCTGAAAAAGGTACCCAGTTA  
 TTAGAAATCTATGCTTTGAAATTCAAATGTACACTGCACAGAAGAACAACAAAAAGCTTAAAGCACTCT  
 ATGAGCAATCACTTCACATCAAGTCTGCCATCCCTACCCACTAATCATGGGTGTCATCAGAGAATGCGG  
 TGGTAAGATGCACTTGAGAGAAGGTGAATTTGAAAAGGCACACACTGATTTTTTTGAAGCCTTCAAGAAT  
 TATGATGAATCAGGAAGCCCAAGACGAACCACTTGTTTAAATATTTGGTTTTAGCAAAATATGCTAATGA  
 AATCAGGAATAAATCCGTTTGACTCACAAGAGGCCAAGCCGTATAAAAATGATCCAGAAATTCTAGCAAT  
 GACAAATTTAGTAAGTGCTATCAGAATAATGACATCACTGAATTTGAAAAGATTCTGAAAACAATCAC  
 AGCAACATCATGGATGATCCTTTCATAAGAGAGCACATTGAAGAATTTTACGAAACATCAGAACACAAG  
 TCCTCATAAAGTTAATTAAGCCTTACACAAGAATACATATTCCTTTATTTCTAAGGAGCTAAACATAGA  
 CGTAGCTGATGTGGAGAGCTTGCTGGTGCAGTGCATACTGGATAACACTATTCATGGCCGAATTGATCAA  
 GTCAACCAGCTCCTTGAAGTGGATCATCAGAAGAGGGGTGGTGGCCGATACACTGCGCTAGATAAATGGA  
 CCAACCACTAAATCTCTGAACCAGGCTGTGGTCAGTAACTGGCT**TAA**

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites:	SgfI-MluI
ACCN:	NM_001285513


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<b>Insert Size:</b>	960 bp
<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>Note:</b>	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
<b>RefSeq:</b>	<u>NM_001285513.1</u> , <u>NP_001272442.1</u>
<b>RefSeq Size:</b>	3128 bp
<b>RefSeq ORF:</b>	960 bp
<b>Locus ID:</b>	12848
<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, IkappaBalpha/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 (4) has multiple differences compared to variant 1. These differences result in a distinct 5' UTR and cause translation initiation 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. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>