

Product datasheet for **MC227762**

Cops2 (NM_001285507) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cops2 (NM_001285507) 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



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Fully Sequenced ORF: >MC227762 representing NM_001285507
Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGGATCGCC**

ATGTCTGACATGGAGGATGATTTTCATGTGCGATGATGAGGAGGACTACGACCTGGAGTACTCTGAAGACA
GTAACCTGAGCCCAATGTGGATTTGGAAAATCAGTACTATAATTCCAAAGCACTGAAAGAAGATGACCC
AAAAGCAGCATTAAAGCAGCTTCCAAAAGTTTTGGAGCTTGAAGGTGAGAAGGGAGAATGGGGATTCAAA
GCGCTAAAACAGATGATCAAGATTAACCTCAAGTTGACAACTTTCCAGAAATGATGAACAGATATAAGC
AACTATTGACCTATATTCGGAGTGCAGTACCAGGAATTTCTGAAAAGTCCATTAATCTATCCTTGA
TTATATCTCCACTTCTAAACAGAATTCTGATTTTTTATGTCAGATGGATTTACTGCAGGAATTTTATGAA
ACAACACTGGAAGCTTTGAAAGATGCTAAGAATGATAGACTGTGGTTTAAGACAAACACAAAGCTTGGAA
AATTATATTTAGAACGAGAAGAATATGGAAGCTTCAAAAAATTTACGACAGTTACATCAGTCTTGTC
GACTGATGATGGAGAAGATGACCTGAAAAAAGGTACCCAGTTATTAGAAATCTATGCTTTGGAAATTC
ATGTACACTGCACAGAAGAAACAACAAAAAGCTTAAAGCACTCTATGAGCAATCACTTCACATCAAGTCTG
CCATCCCTCACCCACTAATCATGGGTGTCATCAGAGAATGCGGTGTAAGATGCCTTGAGAGAAGGTGA
ATTTGAAAAGGCACACTGATTTTTTTGAAAGCTTCAAGAATTAATGATGAATCAGGAAGCCCAAGACGA
ACCACTTGTTTAAAAATTTGGTTTTAGCAAAATGCTAATGAAATCAGGAATAAATCCGTTTGACTCAC
AAGAGGCCAAGCCGTATAAAAATGATCCAGAAATCTAGCAATGACAAATTTAGTAAGTGCCTATCAGAA
TAATGACATCACTGAATTTGAAAAGATTCTGAAAACAATCACAGCAACATCATGGATGATCCTTTCATA
AGAGACACATTGAAGAATTTTACGAAACATCAGAACAAGTCTCATAAAGTTAATTAAGCCTTACA
CAAGAATACATATTCCTTTTATTTCTAAGGAGCTAAACATAGACGTAGCTGATGTGGAGAGCTTGCTGGT
GCAGTGCATACTGGATAACACTATTCATGGCCGAATTGATCAAGTCAACCAGCTCCTTGAAGTGGATCAT
CAGAAGAGGGGTGGTCCCGATACACTGCGCTAGATAAATGGACCAACCACTAAATTTCTCTGAACCAGG
CTGTGGTCAGTAACTGGCT**TAA**

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_001285507

Insert Size: 1353 bp

OTI Disclaimer: 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).

OTI Annotation: Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.

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_001285507.1](#), [NP_001272436.1](#)

RefSeq Size: 3353 bp

RefSeq ORF: 1353 bp

Locus ID: 12848

Cytogenetics: 2 61.76 cM

Gene Summary: 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, IκappaBα/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]
Transcript Variant: This variant (1) encodes the longest isoform (a).