

Product datasheet for **MC215777**

Cops2 (NM_009939) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cops2 (NM_009939) 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)



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Fully Sequenced ORF: >MC215777 representing NM_009939
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGC**C

ATGCTGACATGGAGGATGATTTTCATGTGCGATGATGAGGAGGACTACGACCTGGAGTACTCTGAAGACA
 GTAACCTCTGAGCCCAATGTGGATTTGGAAAATCAGTACTATAATTCCAAAGCACTGAAAGAAGATGACCC
 AAAAGCAGCATTAAAGCAGCTTCCAAAAGGTTTTGGAGCTTGAAGGTGAGAAGGGAGAATGGGGATTCAAA
 GCGCTAAACAGATGATCAAGATTAACCTCAAGTTGACAACTTTCCAGAAATGATGAACAGATATAAGC
 AACTATTGACCTATATTCGGAGTGCAGTCACCAGGAAGTATTCTGAAAAGTCCATTAATTCTATCCTTGA
 TTATATCTCCACTTCTAAACAGATGGATTTACTGCAGGAATTTTATGAAACAACACTGGAAGCTTTGAAA
 GATGCTAAGAATGATAGACTGTGGTTTAAGACAAACACAAAGCTTGAAAATTATATTTAGAACGAGAAG
 AATATGAAAAGCTTCAAAAAATTTACGACAGTTACATCAGTCTTGTCAGACTGATGATGGAGAAGATGA
 CCTGAAAAAGGTACCCAGTTATTAGAAATCTATGCTTTGAAAATCAAATGTACACTGCACAGAAGAAC
 AACAAAAAGCTTAAAGCACTCTATGAGCAATCACTTCACATCAAGTCTGCCATCCCTCACCCACTAATCA
 TGGGTGTCATCAGAGAATGCGGTGGTAAGATGCACTTGAGAGAAGGTGAATTTGAAAAGGCACACACTGA
 TTTTTTTGAAGCCTTCAAGAATTATGATGAATCAGGAAGCCCAAGACGAACCACTTGTTTAAATATTTG
 GTTTTAGCAAAATATGCTAATGAAATCAGGAATAAATCCGTTTGACTCACAGAGGCCAAGCCGTATAAAA
 ATGATCCAGAAATTTAGCAATGACAAATTTAGTAAGTGCCTATCAGAATAATGACATCACTGAATTTGA
 AAAGATTCTGAAAACAAATCACAGCAACATCATGGATGATCCTTTTATAAGAGAGCACATTGAAGAACTT
 TTACGAAACATCAGAACACAAGTCCTCATAAAGTTAATTAAGCCTTACACAAGAATACATATTCCTTTTA
 TTTCTAAGGAGCTAAACATAGACGTAGCTGATGTGGAGAGCTTGCTGGTGCAGTGCATCTGGATAACAC
 TATTCATGGCCGAATTGATCAAGTCAACCAGCTCCTTGAAGTGGATCATCAGAAGAGGGGTGGTGCCCGA
 TACACTGCGCTAGATAAATGGACCAACCACTAATTCTCTGAACCAGGCTGTGGTCAGTAACTGGCTT
 AA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_009939

Insert Size: 1332 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).

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.

Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_009939.3 , NP_034069.2
RefSeq Size:	3332 bp
RefSeq ORF:	1332 bp
Locus ID:	12848
UniProt ID:	P61202
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, 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] Transcript Variant: This variant (2) uses an alternate in-frame splice site in the 5' coding region compared to variant 1. This results in a shorter protein (isoform b) compared to isoform a.