

Product datasheet for **MR229973**

Cops2 (NM_001285507) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cops2 (NM_001285507) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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ORF Nucleotide Sequence:

>MR229973 representing NM_001285507
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCTGACATGGAGGATGATTTTCATGTGCGATGATGAGGAGGACTACGACCTGGAGTACTCTGAAGACA
 GTA AACTCTGAGCCCAATGTGGATTTGGAAAATCAGTACTATAATTCCAAAGCACTGAAAGAAGATGACCC
 AAAAGCAGCATTAAAGCAGCTTCCAAAAGTTTTGGAGCTTGAAGGTGAGAAGGGAGAATGGGGATTCAAA
 GCGCTAAAACAGATGATCAAGATTA AACTTCAAGTTGACAAACTTTCCAGAAATGATGAACAGATATAAGC
 AACTATTGACCTATATTCGGAGTGCAGTACCAGGA AACTATTCTGAAAAGTCCATTAATTCTATCCTTGA
 TTATATCTCCACTTCTAAACAGAATTCTGATTTTTTATGTCAGATGGATTTACTGCAGGAATTTTATGAA
 ACAACTGGAAGCTTTGAAAGATGCTAAGAATGATAGACTGTGGTTTAAGACAAACACAAAGCTTGGAA
 AATTATATTTAGAACGAGAAGAATATGAAAAGCTTCAAAAAATTTACGACAGTTACATCAGTCTTGTC
 GACTGATGATGGAGAAGATGACCTGAAAAAAGGTACCCAGTTATTAGAAATCTATGCTTTGGAAATTC
 ATGTACACTGCACAGAAGAAACAACAAAAAGCTTAAAGCACTCTATGAGCAATCACTTCACATCAAGTCTG
 CCATCCCTCACCCACTAATCATGGGTGTCATCAGAGAATGCGGTGTAAGATGCCTTGAGAGAAGGTGA
 ATTTGAAAAGGCACACTGATTTTTTTGAAAGCTTCAAGAATTAATGATGAATCAGGAAGCCCAAGACGA
 ACCACTTGTTTAAAAATTTGGTTTTAGCAAATATGCTAATGAAATCAGGAATAAATCCGTTTGACTCAC
 AAGAGGCCAAGCCGTATAAAAAATGATCCAGAAATCTAGCAATGACAAATTTAGTAAGTGCCTATCAGAA
 TAATGACATCACTGAATTTGAAAAGATTCTGAAAACAATCACAGCAACATCATGGATGATCCTTTCATA
 AGAGACCATTTGAAGA AACTTTTACGAAACATCAGAACAAGTCTCATAAAGTTAATTAAGCCTTACA
 CAAGAATACATATTCCTTTTATTTCTAAGGAGCTAAACATAGACGTAGCTGATGTGGAGAGCTTGCTGGT
 GCAGTGCATACTGGATAACACTATTCATGGCCGAATTGATCAAGTCAACCAGCTCCTTGAAGTGGATCAT
 CAGAAGAGGGGTGGTCCCGATACACTGCGCTAGATAAATGGACCAACCACTAAATTCTCTGAACCAGG
 CTGTGGTCAGTAAACTGGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR229973 representing NM_001285507
 Red=Cloning site Green=Tags(s)

MSDMEDDFMCDDEEDYDLEYSSEDSNSEPNVDLENQYYNSKALKEDDPKAALSSFQKVL ELEGKEGEWGFK
 ALKQMIKINFKLTNFPMMNRYKQLLTYIRSAVTRNYSEKSINSILDYISTSKQNSDFLCQMDLLQEFYE
 TTLEALKDAKNDRLWFKTNTKLGKLYLEREEYGKLGKILRQLHQSCQTDDGEDDLKKGTLLEIYALEIQ
 MYTAQKNNKLLKALYEQSLHIKSAIPHPLIMGVIRECGGKMHLEGEFEKAHTDFFEAFKNYDESGSPRR
 TTCLKYLVLANMLMKSGINPFDSEAKPYKNDPEILAMTNLVSAYQNNDITEFEKILKTNHSNIMDDPFI
 REHIEELLRNIRTQVLIKLIKPYTRIHIPFISKELNIDVADVESLLVQCILDNTIHGRIDQVNQLLELDH
 QKRGGARYTALDKWTNQLNSLNQAVVSKLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

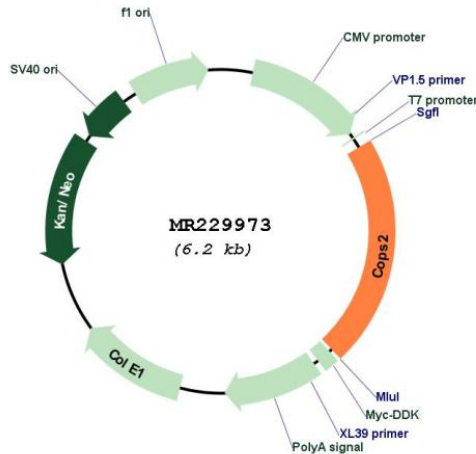
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001285507

ORF Size: 1350 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_001285507.1](#), [NP_001272436.1](#)

RefSeq Size: 3353 bp

RefSeq ORF: 1353 bp

Locus ID: 12848

Cytogenetics: 2 61.76 cM

MW: 52.9 kDa

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]