

Product datasheet for MR229221

Cops2 (NM_001285513) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cops2 (NM_001285513) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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)
ORF Nucleotide Sequence:	>MR229221 representing NM_001285513 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGATTTACTGCAGGAATTTTATGAAACAACACTGGAAGCTTTGAAAGATGCTAAGAATGATAGACTGT
GGTTTAAGACAAACACAAAGCTTGAAAATTATTTAGAACGAGAAGAATATGGAAGCTTCAAAAAAT
TTTACGACAGTTACATCAGTCTTGTCAGACTGATGATGGAGAAGATGACCTGAAAAAGGTACCCAGTTA
TTAGAAATCTATGCTTTGAAAATCAAATGTACACTGCACAGAAGAACAACAAAAAGCTTAAAGCACTCT
ATGAGCAATCACTTCACATCAAGTCTGCCATCCCTCACCCACTAATCATGGGTGTCATCAGAGAATGCGG
TGGTAAGATGCACCTTGAGAGAAGGTGAATTTGAAAAGGCACACACTGATTTTTTTGAAGCCTTCAAGAAT
TATGATGAATCAGGAAGCCCAAGACGAACCACTTGTTTAAAAATTTGGTTTTAGCAAATATGCTAATGA
AATCAGGAATAAATCCGTTTGACTCACAAAGAGGCCAAGCCGTATAAAAAATGATCCAGAAATTTCTAGCAAT
GACAAATTTAGTAAGTGCCTATCAGAAATGACATCACTGAATTTGAAAAGATTCTGAAAACAAAATCAC
AGCAACATCATGGATGATCCTTTTATAAGAGAGCACATTGAAGAATTTTACGAAACATCAGAACACAAG
TCCTCATAAAGTTAATTAAGCCTTACACAAGAATACATATTCCTTTTATTCTAAGGAGCTAAACATAGA
CGTAGCTGATGTGGAGAGCTTGCTGGTGCAGTGCATACTGGATAACACTATTCATGGCCGAATTGATCAA
GTCAACCAGCTCCTTGAAGTGGATCATCAGAAGAGGGTGGTGCCCGATACACTGCGCTAGATAAATGGA
CCAACCAACTAAATCTCTGAACCAGGCTGTGGTCAGTAAACTGGCT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR229221 representing NM_001285513
 Red=Cloning site Green=Tags(s)

MDLLQEFYETTLEALKDAKNDRLWFKTNTKLGKLYLEREEYGKLGKILRQLHQSCQTDDGEDDLKKGQTQL
 LEIYALEIQMYTAQKNNKKLALYEQSLHIKSAIPHPLIMGVIRECGKMHLREGEFEKAHTDFFEAFKN
 YDESGSPRRTTCLKYLVLNMLMKSGINPFDSQEAKPYKNDPEILAMTNLVSAYQNNDITEFEKILKTNH
 SNIMDDPFIREHIEELLRNIRTQVLIKLIKPYTRIHIPFISKELNIDVADVESLLVQCILDNTIHGRIDQ
 VNQLLELDHQKRGARYTALDKWNTQLNSLNQAVVSKLA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001285513

ORF Size: 957 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_001285513.1](#), [NP_001272442.1](#)

RefSeq Size: 3128 bp

RefSeq ORF: 960 bp

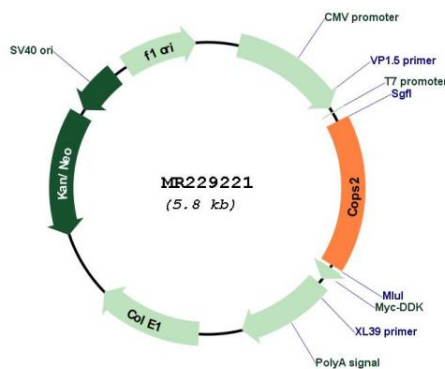
Locus ID: 12848

Cytogenetics: 2 61.76 cM

MW: 37.5 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]

Product images:



Circular map for MR229221