

Product datasheet for MR217112

Cops4 (NM_012001) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cops4 (NM_012001) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Cops4
Synonyms:	AW208976; D5ErtD774e; SGN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>MR217112 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTGCCGTGCGACAGGATTTGGCCAGCTCATGAATCAAGCGGCTCTCATAAAGATCTGGCGG
GCAAAATCGTCAGATTCTGAAAAAGCCATTAGTTATCTGGGACAGAACAAGTAAAGCATTGAAAGC
TTTTGTGGAAGCGATGGTGAATGAGAATGTCAGCCTCGTGATCTCACGGCACTGCTAACAGATTTCTGC
ACACACCTCCCTAACCTGCCAGACAGCACAGCCAAGGAGGTCTACCATTTACCTTGAGAAGATCCAGC
CTCGGGTCATTTCTTTGAAGAGCAGGTTGCTTCCATAAGACAGCATCTGGCATCTATTTATGAGAAGGA
GGAAGACTGGAGAAATGCAGCCCAAGTGTGGTGGGGATTCTCTGGAAACAGGACAAAAACAGTACAAC
GTAGATTATAAGCTGGAGACTTACCTGAAGATTGCAAGGCTATACCTGGAGGATGACGATCCCGTCCAGG
CCGAGGCTTACATAAACCGAGCGTCTTACTTCAGAACGAATCCACAAATGAACAGTTACAGATACACTA
TAAGGTTTGCTATGCGCGTGTCTTGTATTACAGAAGGAAATTCATTGAGGCGCCAGAGGTACAATGAG
CTCTCTTACAAGACAATAGTCCATGAAAGTGAGAGACTAGAGGCCTTAAAGCATGCACTGCACTGCACCA
TCTTAGCATCGGCAGGACAGCAGCGCTCTCGGATGCTGGCTACTCTTTTTAAGGATGAAAGGTGCCAGCA
ACTAGCTGCATATGGGATCCTAGAGAAGATGTACCTAGACAGAATCATCAGAGGGAACAGCTTCAAGAA
TTTGCTGCTATGCTGATGCCACACCAAAAAGCAACGACAGCTGATGGTTCCAGCATCTTGGACAGAGCTG
TTATTGAGCATAAATTTGTTGTGACGAAGCAAAATATATAACAATATCACCTTTGAAGAAGCTTGGAGCTCT
TTTAGAGATCCCTGCAGCTAAGGACAGAAAAGATAGCATCTCAGATGATAACGGAAGGACGCATGAATGGG
TTTATTGACCAGATCGATGGAATAGTTCAATTTGAAACACGAGAAGCCCTGCCAACATGGGACAAGCAGA
TCCAGTCACTTTGTTTCCAAGTAAACAACCTCCTGGAGAAAATAGTCAGACGGCCCGGAGTGGACAGC
ACAAGCCATGGAAGCGCAGATGGCCAG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >MR217112 protein sequence
 Red=Cloning site Green=Tags(s)

MAAAVRQDLAQLMNSSGSHKDLGK YRQILEKAIQLSGTEQLEALKAFVEAMVNENVSLVISRQLLTDFC
 THLPNLPDSTAKEVYHF TLEKIQPRVISFEEQVASIRQHLASIYEKEEDWRNAAQVLVGIPL ETGQKQYN
 VDYKLETYLKIARLYLEDDDPVQAEAYINRASLLQNESTNEQLQIHYKVCYARVLDYRRKFIEAAQRYNE
 LSYKTI VHESERLEALKHALHCTILASAGQQRSRMLATLFKDERCQQLAAYGILEKMYLDRIIRGNQLQE
 FAAMLMPHQKATTADGSSILDRAVIEHNLLSASKLYNNITFEELGALLEIPA AKAEKIASQMITEGRMNG
 FIDQIDGIVHVFETREALPTWDKQIQSLCFQVNNLLEKISQTAPEWTAQAMEAQMAQ

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_012001

ORF Size: 1221 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_012001.2](#), [NP_036131.1](#)

RefSeq Size: 1771 bp

RefSeq ORF: 1221 bp

Locus ID: 26891

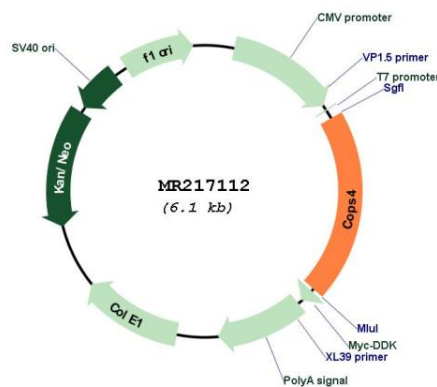
UniProt ID: [O88544](#)

Cytogenetics: 5 48.49 cM

MW: 46.3 kDa

Gene Summary: 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. Also involved in the deneddylation of non-cullin subunits such as STON2. The complex is also involved in phosphorylation of p53/TP53, c-jun/JUN, IκappaBα/NFKBIA, ITPK1, IRF8/ICSBP and SNAPIN, 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 (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR217112