

Product datasheet for MR220173

Cops2 (NM_009939) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
 Product Name: Cops2 (NM_009939) 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
 ORF Nucleotide Sequence: >MR220173 representing NM_009939
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGTCTGACATGGAGGATGATTTTCATGTGCGATGATGAGGAGGACTACGACCTGGAGTACTCTGAAGACA
 GTAACCTCTGAGCCCAATGTGGATTTGGAAAATCAGTACTATAATCCAAAGCACTGAAAGAAGATGACCC
 AAAAGCAGCATTAAAGCAGCTTCCAAAAGGTTTTGGAGCTTGAAGGTGAGAAGGGAGAATGGGGATCAAA
 GCGCTAAAACAGATGATCAAGATTAACCTCAAGTTGACAACTTTCCAGAAATGATGAACAGATATAAGC
 AACTATTGACCTATATTCGGAGTGCAGTACCAGGAATTTCTGAAAAGTCCATTAATTCTATCCTTGA
 TTATATCTCCACTTCTAAACAGATGGATTTACTGCAGGAATTTTATGAAACAACACTGGAAGCTTTGAAA
 GATGCTAAGAAATGATAGACTGTGGTTTAAAGACAAAACAAAGCTTGAAAATTAATTTAGAACGAGAAG
 AATATGGAAGCTTCAAAAAATTTACGACAGTTACATCAGTCTGTGACTGATGATGGAGAAGATGA
 CCTGAAAAAGGTACCCAGTTATTAGAAATCTATGCTTTGGAAATTCAAATGTACTGCACAGAAGAAC
 AACAAAAAGCTTAAAGCACTCTATGAGCAATCACTTACATCAAGTCTGCCATCCCTCACCCTAATCA
 TGGGTGCATCAGAGAATGCGGTGTAAGATGCCTTGAGAGAAGTGAATTTGAAAAGGCACACACTGA
 TTTTTTTGAAGCCTTCAAGAATTATGATGAATCAGGAAGCCCAAGACGAACCACTTGTAAAAATATTTG
 GTTTTAGCAAATATGCTAATGAAATCAGGAATAAATCCGTTTGACTCACAAAGAGGCCAAGCCGTATAAAA
 ATGATCCAGAAATCTAGCAATGACAAATTTAGTAAGTGCCTATCAGAATAATGACATCACTGAATTTGA
 AAAGATTCTGAAAACAAATCACAGCAACATCATGGATGATCCTTTATAAGAGAGCACATTGAAGAACTT
 TTACGAAACATCAGAACAAGTCTCATAAAGTTAATTAAGCCTTACACAAGAATACATATTCCTTTTA
 TTTCTAAGGAGCTAAACATAGACGTAGCTGATGTGGAGAGCTTGTGGTGCAGTGCATACCTGGATAACAC
 TATTCATGGCCGAATTGATCAAGTCAACCAGCTCCTTGAAGTGGATCATCAGAAGAGGGGTGGTCCCGA
 TACTGCGCTAGATAAATGGACCAACCACTAAATTCCTGAACCAGGCTGTGGTGCAGTAACTGGCT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA



Protein Sequence: >MR220173 representing NM_009939
 Red=Cloning site Green=Tags(s)

MSDMEDDFMCDDEEDYDLEYSSEDSNSEPNVDLENQYYNSKALKEDDPKAALSSFQKVLLEGEKGEWGFK
 ALKQMIKINFKLTNFPPEMNRKQLLTYIRSAVTRNYSEKSINSILDYISTSKQMDLLQEFYETTLEALK
 DAKNDRLWFKTNTKLGKLYLEREEYGLKQKILRQLHQSCQTDGDDLLKKGTLLEIYALEIQMYTAQKN
 NKKLKALYEQSLHIKSAIPHPLIMGVIRECGGKMHLEGEFEKAHTDFFFAFKNYDESGSPRRTTCLKYL
 VLANMLMKSGINPFDSQEAKPKYKNDPEILAMTNLVSAYQNNIDITEFEKILKTNHSNIMDDPFIREHIEEL
 LRNIRTQVLIKLIKPYTRIHIPFISKELNIDVADVESLLVQCILDNTIHGRIDQVNNQLLELDHQKRGGAR
 YTALDKWTNQLNSLNQAVVSKLA

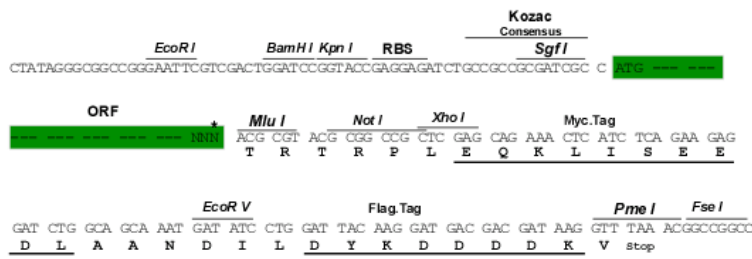
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

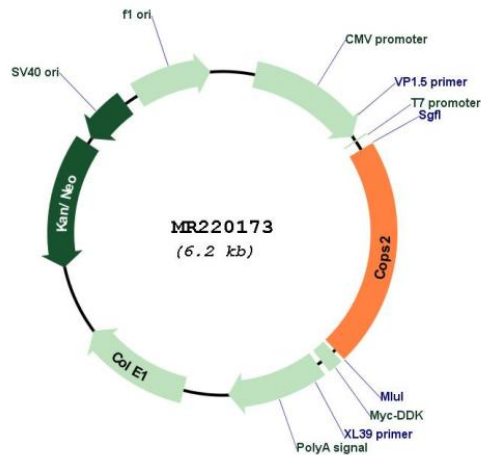
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN:

NM_009939

ORF Size:	1329 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:	<ol style="list-style-type: none">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_009939.3 , NP_034069.2
RefSeq Size:	3250 bp
RefSeq ORF:	1332 bp
Locus ID:	12848
UniProt ID:	P61202
Cytogenetics:	2 61.76 cM
MW:	52 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]