

Product datasheet for **MR229205**

Cops5 (NM_001277101) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Cops5 (NM_001277101) Mouse Tagged ORF Clone
Tag: Myc-DDK
Symbol: Cops5
Synonyms: AI303502; CSN5; Jab1; Mov34; Sgn5
Vector: pCMV6-Entry (PS100001)
E. coli Selection: Kanamycin (25 ug/mL)
Cell Selection: Neomycin
ORF Nucleotide Sequence: >MR229205 representing NM_001277101
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**GCGATCGCC**

ATGTGCGCTGCGCCGCGCCGCGCCCGCCAGCGCGCAATGGTCTGGACCAACGTCACCTCCGGTCTCAAGT
TCATGGCTGCCTTGAGAGTCTATCACCCTACTTTAAATACTGCAAATCTCAGCATTGGCTCTACTGAA
AATGGTGATGCATGCCAGGTCAGGAGGCAACTTGAAGTGATGGGTTTGATGCTCGGAAAGTCGACGGC
GAGACCATGATCATCATGGACAGTTTCGCTTTGCCTGTAGAGGGCACAGAACTCGAGTAAATGCTCAAG
CTGCTGCGTATGAGTATATGGCTGCATACATAGAAAATGCCAAACAGGTTGGCCGCTTGAGAATGCAAT
CGGTTGGTATCATAGCCACCCTGGTTATGGCTGCTGGCTCTCCGGGATTGATGTTAGTACACAGATGCTG
AACCAGCAGTTTCAAGAACCATTGTAGCAGTGGTGATTGATCCAACCAGAACAACTCTGCAGGAAAAG
TGAATCTTGGCGCCTTTAGGACATATCCAAAGGGCTACAACTCCTGATGAAGGACCTTCTGAGTACCA
GACTATCCCACCTAATAAAAATAGAAGATTTTGGCGTGCCTGCAAACAATATTATGCCTTAGAAGTCTCA
TATTTCAAATCATCTTTGGATCGTAACTACTTGAGCTTTTGTGGAATAAATACTGGTGAATACCTGA
GTTCTCTAGCTTACTAATGCAGACTACCCACAGGCCAGGTGTTTGATTGTCTGAGAAGTTAGA
GCAGTCGGAAGCCAACTGGGACGTGGCAGTTTCATGTTGGGCTTAGAAAACACATGACCCGAAGTCGGAA
GACAACTTGCCAAAGCTACTAGAGACGCTGTAAAACCCATAGAAGCCATCCATGGACTGATGTCTC
AGGTTATAAGGATAAACTGTTAATCAGATTAACGTTGCT

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ACAAGGATGACGACGATAAGGTTTAA



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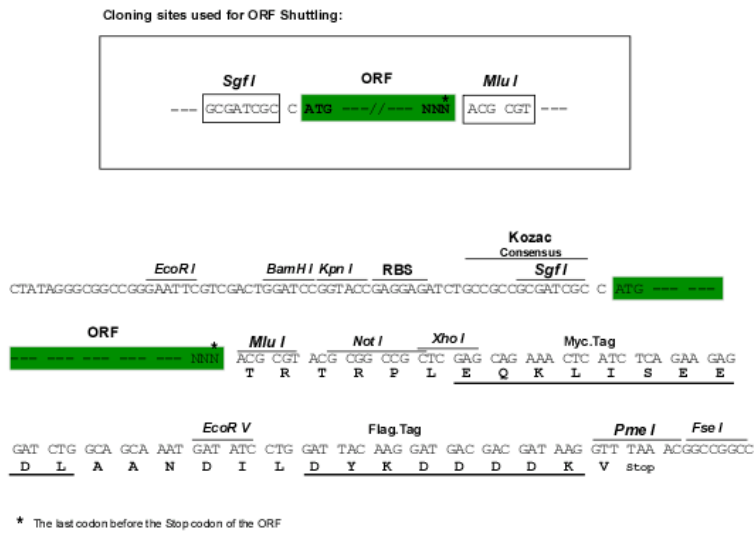
Protein Sequence: >MR229205 representing NM_001277101
 Red=Cloning site Green=Tags(s)

MSLRRRRAPAREWSGPTSPPVSSVMAALRVYHHYFKYCKISALALLKMVMHARSGGNLEVMGLMLGKVDG
 ETMIIMDSFALPVEGTETRVNAQAAAYEYMAAYIENAKQVGRLENAIGWYHSHPGYGCWLSGIDVSTQML
 NQQFQEPFVAVVIDPRTTISAGKVNLGAFRTYPKGYKPPDEGPSEYQTIPLNKIEDFGVHCKQYYALEVS
 YFKSSLDRKLELLWNKYWVNTLSSSSLLTNADYTTGQVFDLSEKLEQSEAQLGRGSFMLGLETHDRKSE
 DKLAKATRDSCKTITIEAIHGLMSQVIKDKLFNQINVA

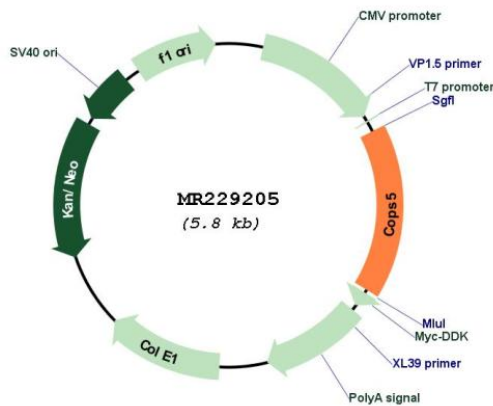
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001277101

ORF Size: 951 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_001277101.1 , NP_001264030.1
RefSeq Size:	1482 bp
RefSeq ORF:	954 bp
Locus ID:	26754
UniProt ID:	O35864
Cytogenetics:	1 2.29 cM
MW:	36 kDa
Gene Summary:	Probable protease subunit 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 the SCF-type E3 ligase complexes, leading to decrease the Ubl ligase activity of SCF-type complexes such as SCF, CSA or DDB2. Promotes the proteasomal degradation of BRSK2. The complex is also involved in phosphorylation of p53/TP53, c-jun/JUN, I κ B α /NFKBIA, ITPK1 and IRF8, 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. In the complex, it probably acts as the catalytic center that mediates the cleavage of Nedd8 from cullins. It however has no metalloprotease activity by itself and requires the other subunits of the CSN complex. Interacts directly with a large number of proteins that are regulated by the CSN complex, confirming a key role in the complex.[UniProtKB/Swiss-Prot Function]