

Product datasheet for **MG207016**

Cops2 (BC023096) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cops2 (BC023096) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cops2
Synonyms:	Sgn2, Trip15, alien-like, Csn2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG207016 representing BC023096 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGAGGATGATTTTCATGTGCGATGATGAGGAGGACTACGACCTGGAGTACTCTGAAGACAGTAACTCTG
AGCCCAATGTGGATTTGGAAAATCAGTACTATAATTCCAAAGCACTGAAAGAAGATGACCCAAAAGCAGC
ATTAAGCAGCTTCCAAAAGGTTTGGAGCTTGAAGGTGAGAAGGGAGAATGGGGATTCAAAGCGCTAAAA
CAGATGATCAAGATTAACCTCAAGTTGACAACTTTCCAGAAATGATGAACAGATATAAGCAACTATTGA
CCTATATTCGGAGTGCAGTCACCAGGAATTTCTGAAAAGTCCATTAATTCTATCCTTGATTATATCTC
CACTTCTAAACAGATGGATTTACTGCAGGAATTTATGAAAACAACACTGGAAGCTTTGAAAGATGCTAAG
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AGGTACCCAGTTATTAGAAATCTATGCTTTGAAAATTCAAATGTACACTGCACAGAAGAACAACAAAAAG
CTTAAAGCACTCTATGAGCAATCACTTCACATCAAGTCTGCCATCCCTCACCCACTAATCATGGGTGCA
TCAGAGAATGCGGTGGTAAAATGCACCTGAGAGAAGGTGAATTTGAAAAGGCACACACTGATTTTTTTGA
AGCCTTCAAGAATTATGATGAATCAGGAATAAATCCGTTTGACTCACAAGAGGCCAAGCCGTATAAAAAATGATCCG
AAATTCTAGCAATGACAATTTAGTAAGTGCCTATCAGAATAATGACATCACTGAATTTGAAAAGATTCT
GAAAACAATCACAGCAACATCATGGATGATCCTTTTCATAAAAAGGCACATTGAAGAGCTTTTACGAAAC
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AGCTAAACATAGACGTAGCTGATGTGGAGAGCTTGCTGGTGCAGTGCATACTGGATAACACTATTCATGG
CCGAATTGATCAAGTCAACCAGTCTTGAAGTGGATCATCAGAAGAGGGGTGGTCCCGATACACTGCG
CTAGATAAATGGACCAACCACTAAATTCTCTGAACCAGGCTGTGGTCAGTAACTGGCT

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG207016 representing BC023096
 Red=Cloning site Green=Tags(s)

MEDDFMCDDEEDYDLEYSEDSNSEPNVDLENQYNSKALKEDDPKAALSSFQKVLELEGEKGEWGFKALK
 QMIKINFKLTNFPPEMMNRYKQLLTYIRSAVTRNYSEKINSILDYISTSKQMDLLQEFYETTLEALKDAK
 NDRLWFKTNTKLGKLYLEREEYGLQKILRQLHQSCQTDDGEDDLKKGTLLEIYALEIQMYTAQKNNKK
 LKALYEQSLHIKSAIPHPLIMGVIRECGGKMHLEGEFEKAHTDFFEAFKNYDESGSPRRTTCLKYLVLVLA
 NMLMKSGINPFDSQEAKPYKNDPEILAMTNLVSAYQNNDITEFEKILKTNHNSIMDDPF IKEHIEELLRN
 IRTQVLIKLIKPYTRIHIPFISKELNIDVADVESLLVQCILDNTIHGRIDQVNQLLELDHQKRGARYTA
 LDKWTNQLNSLNQAVVSKLA

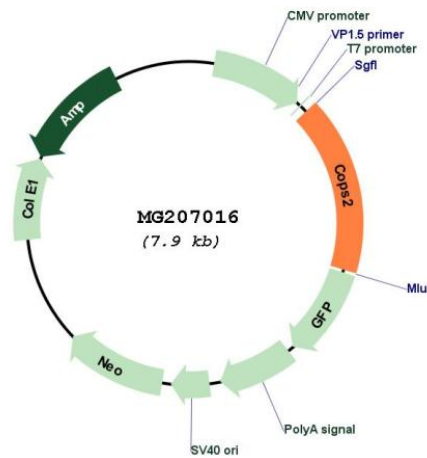
TRTRPLE – GFP Tag – V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC023096

ORF Size:	1322 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:	BC023096 , AAH23096
RefSeq Size:	1951 bp
RefSeq ORF:	1322 bp
Locus ID:	12848
Cytogenetics:	2 61.76 cM
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]