

Product datasheet for **MG217112**

Cops4 (NM_012001) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Cops4 (NM_012001) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cops4
Synonyms:	AW208976; D5ErtD774e; SGN4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG217112 representing NM_012001 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCGGCTGCCGTGCGACAGGATTTGGCCAGCTCATGAATCAAGCGGCTCTCATAAAGATCTGGCGG
GCAAAATCGTCAGATTCTGAAAAAGCCATTCAGTTATCTGGGACAGAACAAGTAGAAGCATTGAAAGC
TTTTGTGGAAGCGATGGTGAATGAGAATGTCAGCCTCGTGATCTCACGGCACTGCTAACAGATTTCTGC
ACACACCTCCCTAACCTGCCAGACAGCACAGCCAAGGAGGTCTACCATTTACCTTGGAAGATCCAGC
CTCGGGTCATTTCTTTGAAGAGCAGGTTGCTTCCATAAGACAGCATCTGGCATCTATTTATGAGAAGGA
GGAAGACTGGAGAAATGCAGCCCAAGTGTGGTGGGGATTCTCTGGAAACAGGACAAAAACAGTACAAC
GTAGATTATAAGCTGGAGACTTACCTGAAGATTGCAAGGCTATACCTGGAGGATGACGATCCCGTCCAGG
CCGAGGCTTACATAAACCGAGCGTCTTACTTCAGAACGAATCCACAAATGAACAGTTACAGATACACTA
TAAGGTTTGCTATGCGCGTGTCTTGATTACAGAAGGAAATTCATTGAGGCCGCCAGAGGTACAATGAG
CTCTCTTACAAGACAATAGTCCATGAAAGTGAGAGACTAGAGGCCTTAAAGCATGCACTGCACTGCACCA
TCTTAGCATCGGCAGGACAGCAGCGCTCTCGGATGCTGGCTACTCTTTTTAAGGATGAAAGGTGCCAGCA
ACTAGCTGCATATGGGATCCTAGAGAAGATGTACCTAGACAGAATCATCAGAGGGAACAGCTTCAAGAA
TTTGCTGCTATGCTGATGCCACACCAAAAAGCAACGACAGCTGATGGTTCCAGCATCTTGGACAGAGCTG
TTATTGAGCATAATTTGTTGTGCAAGCAAAATATATAACAATATCACCTTTGAAGAAGCTTGGAGCTCT
TTTAGAGATCCCTGCAGCTAAGGACAGAAAAGATAGCATCTCAGATGATAACGGAAGGACGATGAATGGG
TTTATTGACCAGATCGATGGAATAGTTCAATTTGAAACACGAGAAGCCCTGCCAACATGGGACAAGCAGA
TCCAGTCACTTTGTTTCCAAGTAAACAACCTCCTGGAGAAAATAGTCAGACGGCCCCGGAGTGGACAGC
ACAAGCCATGGAAGCGCAGATGGCCAG

ACGGTACGGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG217112 representing NM_012001
 Red=Cloning site Green=Tags(s)

MAAAVRQDLAQLMNSSGSHKDLAGKYRQILEKAIQLSGTEQLEALKAFVEAMVNVSLVISRQLLTDFC
 THLPNLPDSTAKEVYHFLEKIQPRVISFEEQVASIRQHLASIYEKEEDWRNAAQVLVGIPLETGQKQYN
 VDYKLETYLKIARLYLEDDDPVQAEAYINRASLLQNESTNEQLQIHYKVCYARVLDYRRKFIEAAQRYNE
 LSYKTIHVHESERLEALKHALHCTILASAGQQRSRMLATLFDKERCQQLAAYGILEKMYLDRIIRGNLQE
 FAAMLMPHQATTADGSSILDRAVIEHNLLSASKLYNNITFEELGALLEIPAAKAEKIASQMITEGRMNG
 FIDQIDGIVHFETREALPTWDKQIQSLCFQVNNLLEKISQTAPEWTAQAMEAQMAQ

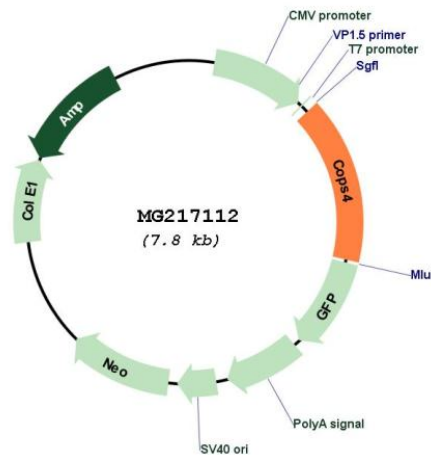
TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_012001

ORF Size:	1218 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_012001.2 , NP_036131.1
RefSeq Size:	1771 bp
RefSeq ORF:	1221 bp
Locus ID:	26891
UniProt ID:	O88544
Cytogenetics:	5 48.49 cM
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]