

## Product datasheet for **MG204710**

### Cops6 (NM\_012002) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Cops6 (NM_012002) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Cops6
Synonyms:	Sgn3; VIP/MOV34
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204710 representing NM_012002 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCGGCGGCAGCTGCGGCGGGGCGAATGGGAGCGGAGGCAGCAGCGGCATGGAAGTGGATGCAGCAG  
TCCCCAGCGTGATGGCCTCCGGAGTGACTGGGAGTGTTCGTCGCTCTTCATCCCCTTGTATCCCTTAA  
CATCTCAGACCATTGGATCCGCATGCGCTCCAGGAGGGCGGCCTATGCAGGTGATTGGGGCTCTGATC  
GGGAAGCAGGAGGGCGAAATATCGAAGTGATGAACTCCTTTGAGCTGCTGTCCACACCGTGGAAGAGA  
AGATTATCATTGACAAAGAATATTATTACACCAAGGAGGAGCAGTTTAAACAGGTTTTCAAGGAGCTGGA  
GTTTCTGGGTGGTATACCACAGGGGGCCACCTGACCCCTCAGACATCCACGTCCATAAGCAGGTGTGT  
GAGATAATTGAGAGTCCGCTCTTCTGAAGTTGAACCCTATGACCAAGCACACAGATCTTCTGTACGCG  
TTTTTGAGTCTGTATCGATATAATCAATGGAGAGGCCACAATGCTGTTTGTGAGCTCACTTACTCT  
GGCCACTGAGGAAGCTGAACGGATCGGTGTAGACCACGTGGCCCGGATGACAGCAACAGGCAGTGGGGAG  
AACTCCACTGTGGCTGAACACCTGATAGCTCAGCATAGTGCCATCAAGATGCTGCACAGCCGTGTGAAGC  
TCATTTTAGAATATGTCAAGGCCTCTGAAGCAGGAGAGGTTCCCTTCAACCATGAGATCCTGCGGGAGGC  
CTATGCCCTATGTCACTGTCTCCAGTTCTCAGCACTGACAAGTTCAAGACAGACTTTTATGATCAATGC  
AATGACGTGGGGCTCATGGCCTACCTCGGCACCATCACAAAACGTGCAACACAATGAACCAAGTTTGTGA  
ACAAGTTCAACGTCTCTACGACCGACAAGGCATTGGCCGGCGAATGCGGGGACTGTTTTTC

**ACGCGT**ACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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**Protein Sequence:** >MG204710 representing NM\_012002  
 Red=Cloning site Green=Tags(s)

MAAAAAAGANGSGGGSSGMEVDAAVPSVMASGVTGSVSVALHPLVILNISDHWIRMRSQEGRPMQVIGALI  
 GKQEGRNIEVMNSFELL SHTVEEKIIIDKEYYYTKEEQVKQVKELEFLGWYTTGGPPDPSDIHVHKQVC  
 EIIESPLFLKLNPMTKHTDLPVSVFESVIDIINGEATMLFAELTYTLATEEAERIGVDHVARMTATGSGE  
 NSTVAEHLIAQHSIAIKMLHSRVKLILEYVKASEAGEVFPNHEILREAYALCHCLPVLSTDKFKTDFYDQC  
 NDVGLMAYLGTITKTCNTMNQFVNKFNVLVYDRQIGRRMRGLFF

TRTRPLE - GFP Tag - V

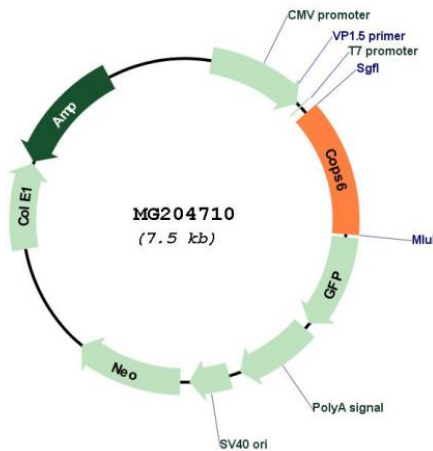
**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



**Plasmid Map:**



**ACCN:** NM\_012002

**ORF Size:** 972 bp

<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_012002.3</a>
<b>RefSeq Size:</b>	1135 bp
<b>RefSeq ORF:</b>	975 bp
<b>Locus ID:</b>	26893
<b>UniProt ID:</b>	<a href="#">O88545</a>
<b>Cytogenetics:</b>	5 G2
<b>Gene Summary:</b>	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, I $\kappa$ B $\alpha$ /NF $\kappa$ BIA, 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. Has some glucocorticoid receptor-responsive activity (By similarity). Stabilizes COP1 through reducing COP1 auto-ubiquitination and decelerating COP1 turnover rate, hence regulates the ubiquitination of COP1 targets, including SFN (By similarity). [UniProtKB/Swiss-Prot Function]