

Product datasheet for **MR211019**

Copg2 (NM_017478) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Copg2 (NM_017478) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Copg2
Synonyms:	AW227625; gamma-2-COP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR211019 representing NM_017478
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGATTAATAAAATTCGACAAGAAGGACGAGGAGTCTGGTGTGGTTCCAATCCTTTCCAGCATTGGAGA
 AGAGTGTCTTGCAGGAGGCACGCATATTCAACGAAACGCCCATCAATCCAAGAAGATGCTTGCATAT
 CTTGACAAAGATTCTTTACTTACTCAACCAGGGTGAACACTTCGGAACATGGAAGCTACAGAAGCCTTC
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 GAAAGGTACATGAAGCAGGCCATTGTGGATAAAGTATCCAGTGTAGCCAGCTCAGCGCTGGTCTCTTCT
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 GGACTTAGAAACTTAATCACAGACTCAAACAGGAGCATTGCTACCCTGGCCATTACAACATTGCTCAAA
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 TCCAGGCTGGCCCTAGCTGATGGAGTGACCATGCAGGTGACTGTGAGAAGCAAAGAGAGAACGCCTGTGG
 ATGTTATCTTGGCTTCTGTGGGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >MR211019 representing NM_017478
 Red=Cloning site Green=Tags(s)

MIKKFDKKDEESGSGSNPFQHLEKSAVLQEARIFNETPINPRCLHILTKILYLLNQGEHFGTMEATEAF
 FAMTRLFQSNQTLRRMICYLTIKEMATISEDVIVTSSLTKDMTGKEDVYRGPALRALCRITDGTMLQAV
 ERYMKQAIVDKVSSVASSALVSSLHMMKISYDVKRWINEAQEAASSDNIMVQYHALGVL YHLRKNDRLA
 VSKMLNKFTKSGLKSQFAYCMLIRIASRLLKESEDGHESPLDFDIESCLRKNKHEMVIYEAASAIHHLNPN
 TARELAPAVSVLQLFCSSPKPALRYAAVRTLNKVAMKHPSAVTACNLNLENLITDSNRSIATLAITLLK
 TGSESSVDRLMKQISSFVSEISDEFKVVVVQAIASLCHKYPRKHSVMMTFLSNMLRDDGGFEYKKAIVDC
 IISIVEENPESKEAGLAHLCEFIEDCEHTVLATKILHLLGKEGPRTPVPSKYIRFIFNRVLENEAVRAA
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 ALHQYTLEPSEKPFDMKSIPLAMAPVFEQKSEITLVTPKPEKLAPSRQDIFQEQLAAIPEFMNLGPLFKS
 SEPVQLTEAETEYFVRCVKHMFTHIVFQFDCTNTLNDQLLEKVTVMPEPDSYEVLECCIPAPSLPNQP
 GICYTLVRLPDEDPTAVAGTF SCTMKFTVRDCDPNTGVPDEDDGYDDEYVLEDETVSDHIKQIKLPNFA
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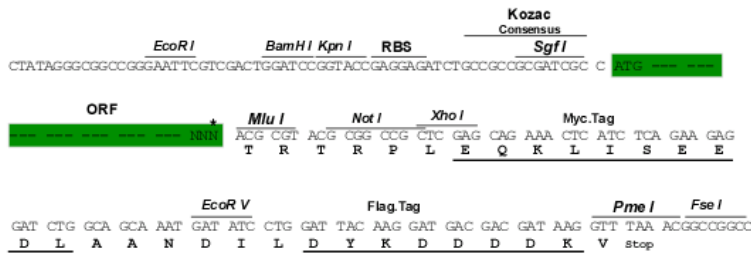
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mm9095_e02.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

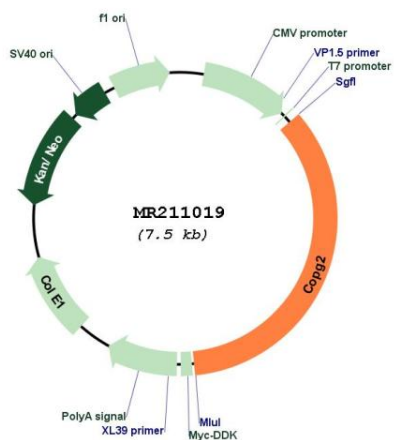
Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN:	NM_017478
ORF Size:	2613 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_017478.3 , NP_059506.1
RefSeq Size:	4016 bp
RefSeq ORF:	2616 bp
Locus ID:	54160
UniProt ID:	Q9QXK3
Cytogenetics:	6 A3.3
MW:	97.7 kDa
Gene Summary:	The coatomer is a cytosolic protein complex that binds to dilysine motifs and reversibly associates with Golgi non-clathrin-coated vesicles, which further mediate biosynthetic protein transport from the ER, via the Golgi up to the trans Golgi network. Coatomer complex is required for budding from Golgi membranes, and is essential for the retrograde Golgi-to-ER transport of dilysine-tagged proteins. In mammals, the coatomer can only be recruited by membranes associated to ADP-ribosylation factors (ARFs), which are small GTP-binding proteins; the complex also influences the Golgi structural integrity, as well as the processing, activity, and endocytic recycling of LDL receptors (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR211019