

Product datasheet for **MC222324**

Copg2 (NM_017478) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Copg2 (NM_017478) Mouse Untagged Clone
Tag:	Tag Free
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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Fully Sequenced ORF: >MC222324 representing NM_017478
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGATTAATAAAATTCGACAAGAAGGACGAGGAGTCTGGTGTGGTTCCAATCCTTTCCAGCATTGGAGA
 AGAGTGTCTTGCAGGAGGCACGCATATTCAACGAAACGCCCATCAATCCAAGAAGATGCTTGCATAT
 CTTGACAAAGATTCTTTACTTACTCAACCAGGGTGAACACTTCGAACTATGGAAGCTACAGAAGCCTTC
 TTTGCAATGACTCGATTGTTCAATCTAATGATCAAACGCTGAGGCGGATGTGCTACCTCACCATCAAGG
 AAATGGCCACCATCTCTGAGGATGTGATCATTGTCACAAGCAGTCTGACCAAGGACATGACTGGAAGGA
 AGATGTATACCGAGGCCAGCCATCAGGGCTCTCTGCAGAATCACAGATGGAACAATGTTGCAAGCCGTT
 GAAAGGTACATGAAGCAGGCCATTGTGGATAAAGTATCCAGTGTAGCCAGCTCAGCGCTGGTCTCTTCT
 TACACATGATGAAGATAAGCTATGATGTGGTTAAACGATGGATAAATGAAGCCCAAGAAGCTGCATCAAG
 TGACAATATCATGGTGCAGTACCATGCACTAGGAGTGTCTATCACCTTAGGAAGATGATCGGCTTGCT
 GTCTCCAAGATGTTAAATAAGTTTACCAAATCTGGTCTCAAATCACAGTTTGCATACTGTATGCTGATTC
 GAATTGCTAGTCGTTACTGAAAGAAAGCGAGGATGGTCAATGAAAGTCCACTCTTTGATTTCAATTGAGAG
 CTGCTTGGCAAATAAACACGAAATGGTTATTTATGAAGCTGCTTCTGCCATTATTCATCTTCCAACTGT
 ACTGCAAGAGAGCTGGCACCTGTCTCAGTTCTTCACTTTTCTGTAGCTCTCCTAAACCAGCCTTGA
 GATATGCAGCTGTGAGGACCTGAACAAGGTGGCAATGAAGCACCCCTCTGCTGTACTGCCTGCAATCT
 GGACTTAGAAAATTAATCACAGACTCAAACAGGAGCATTGCTACCCTGGCCATTACAACATTGCTCAAA
 ACAGGAAGCGAGAGCAGTGTAGACAGGCTTATGAAGCAGATATCTTTTGTGTCTGAAATCTCAGATG
 AGTTCAAGGTGGTGGTCTGAGGCCATCAGTGTCTCTGTCACAAGTACCCTCGGAAGCACAGCGTCAAT
 GATGACTTTTCTTCCAACATGCTTCGAGATGATGGAGGTTTTGAATACAAAAGGCCATTGTGGACTGC
 ATAATCAGCATTGTGGAAGAGAACCCTGAGAGTAAAGAAGCTGGTCTAGCCACCTCTGTGAATTCATTG
 AGGACTGTGAACATACCGTTCTGGCTACTAAAATCTCCACTTATTGGGCAAAGAGGGCCCTAGAATCC
 TGTTCCCTCCAAGTATATCAGATTCATTTTAAATAGGGTGGTCTGGAGAATGAGGCTGTGAGAGCTGT
 GCTGTGAGTGTCTGGCTAAAATTTGGGGCTCAGAAATGAGAGCCTTCTCCCAGCATCCTGTACTCTTAC
 AAAGGTGTATGATGGATACTGATGATGAGGTACGGGACCGAGCTACCTTCTACCTGAATGTGCTACAGCA
 GAGACAGATGGCCCTGAATGCTACATATATCTCAATGGTCTGACAGTCTCTATACCAGGATGGAAAAG
 GCCTTACACCAGTATACATTGGAGCCTCAGAAAACCCTTTGATATGAAGTCAATTCCTCTTGCTATGG
 CTCTGTCTTTGAGCAGAAGTCAGAAATACACTTGTGACTCCTAAGCCAGAGAAGTTGGCTCCTCCAG
 GCAAGACATTTTCCAAGAACAGTTAGCTGCCATTCCTGAGTTTATGAACCTGGGACCCCTGTTTAAAGTCT
 TCTGAGCCTGTGAGCTTACAGAAGCAGAGACAGAGTATTTGTTTCGCTGTGTGAAGCACATGTTTACTG
 ACCATATTGATTTCCAGTTTACTGTACCAACTCTAAATGACCAGCTGCTGGAGAAAGTAACAGTGC
 GATGGAACCATCCGATTCCTATGAAGTGTGTGCTGTATCCCAGCTCCCAGCCTCCCTTACAATCAGCCA
 GGAATATGCTACACACTTGTTCGATTGCCAGATGAAGATCCTACAGCAGTTGCAGGCACCTTTAGCTGTA
 CCATGAAGTTCACAGTCCGGGATTGTGACCCTAATACTGGAGTCCAGATGAAGATGGATATGATGATGA
 ATATGTGCTGGAAGATCTTGAAGTAACTGTGTCTGATCATATTCAGAAGATAAAAACCTAACTTCGCT
 GCTGCCTGGGAAGAGGTGGGAGATGCCTTTGAAAAGAAGAAACCTTTGCCCTGAGCTCTACAAAACCC
 TTGAAGAAGCTGTCAACAACATCATCATTCTTGGTATGCAGCCATGTGAGAGTTCAGATAAAGTCCC
 CGAGAATAAGAACTCCCACTCCCTCTATCTAGCAGGTGTATACAGAGGTGGCTATGACTTATTGGTGGC
 TCCAGGCTGGCCCTAGCTGATGGAGTGACCATGCAGGTGACTGTGAGAAGCAAAGAGAGAACGCCTGTGG
 ATGTTATCTTGGCTTCTGTGGGA**TAA**

ACGGTACGGCGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI
ACCN: NM_017478
Insert Size: 2616 bp

OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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
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]