

## Product datasheet for **SC337320**

### **COPG2 (NM\_001290033) Human Untagged Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	COPG2 (NM_001290033) Human Untagged Clone
Tag:	Tag Free
Symbol:	COPG2
Synonyms:	2-COP; gamma-2-COP
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_001290033, the custom clone sequence may differ by one or more nucleotides

```

ATGATTAATAAATTCGACAAGAAGGACGAGGAGTCTGGTAGTGGCTCCAATCCTTTCCAGCATCTGGAGA
AGAGTGTGTTTTACAGGAGGCTCGTATATTCAATGAACTCCAATCAATCCAAGAAGATGTTGCATAT
TCTTACAAGATTCTTTACTTACTGAACCAGGGTGAACACTTTGGAACAACGGAAGCTACAGAAGCCTTC
TTTGCAATGACGCGATTGTTCAATCTAATGATCAAACATTGAGGAGAATGTGCTACCTTACCATCAAAG
AAATGGCTACCATCTCTGAGGATGTGATAATTGTCACAAGCAGTCTGACTAAAGACATGACTGGAAAAGA
AGATGTATACCGAGGCCCGCCATCAGAGCTCTCTGCAGGATCACCGATGGAACAATGTTGCAAGCCATT
GAAAGATACATGAAGCAGGCCATTGTGGATAAAGTTTCCAGTGTATCCAGTTCAGCACTGGTATCTTCCC
TGCACATGATGAAGATAAGCTATGATGTGGTTAAGCGCTGGATCAATGAAGCCCAAGAAGCTGCATCAAG
TGATAATATTATGGTCCAGTACCATGCATTGGGAGTCTGTATCACCTTAGAAAGAATGATCGACTTGCT
GTTTCCAAGATGTTGAATAAGTTTACTAAATCTGGTCTCAAGTCAAGTTTGCTTACTGCATGCTGATCC
GAATTGCCAGTCGTTACTAAAAGAACTGAGGATGGCCATGAAAGTCCACTGTTTGATTTCATTGAGAG
CTGCTTGGCAAAATAACATGAAATGGTTATTTATGAAGCTGCTTACGCTATCATCCATCTTCTTAAGTGC
ACTGCAAGAGAGTTGGCACCTGCTGTTTCAGTTCTTCACTTTTCTGTAGTTCTCCTAAGCCAGCCTTGA
GATATGCAGCTGTGAGGACCTTGAACAAGTGGCAATGAAGCACCCCTCTGCTGTTACTGCCTGCAATCT
GGACTTAGAAAATTAATCACAGACTCAAACAGAAGCATTGCTACCTTAGCCATTACTACACTCCTCAAA
ACAGGAAGTGAGAGCAGTGTGGACCGGCTCATGAAGCAGATATCTTCTTTGTGTCTGAAATCTCAGATG
AGTTCAAGGTGGTGGTTGTACAGGCAATTAGTGTCTCTGTGCAGAAATACCCTCGAAAGCACAGTGCAT
GATGACTTCTCTCCAACATGCTCCGAGATGATGGAGGCTTTGAGTACAAGCGGCCATTGTGGACTGT
ATAATCAGCATTGTGGAAGAGAACCCTGAGAGTAAAGAAGCAGGCCAGCCACCTTTGTGAATTCATTG
AGGACTGTGAACACACTGTTCTGGTACTAAGATTCTACACTTGTGGCAAGAGGGCCCTAGAACGCC
TGTCCTCCAAATATATCCGTTTTATTTTAAATAGGTTGTCTGGAGAATGAGGCTGTGAGAGCTGCT
GCTGTGAGTGCTTTGGCTAAATTTGGGGCTCAGAAATGAGAGTCTTCTCCCAAGCATCCTTGTACTTTAC
AGAGGTGTATGATGGATACTGATGACGAGGTACGAGACAGAGCTACCTTCTATCTGAATGTGCTGCAGCA
GAGGCAGATGGCACTAAATGCCACATATATCTTTAATGGTTTGACGGTCTCTGTACCAGGGATGGAAAAA
GCCTTACACCAGTACACGTTGGAGCCTTCAGAAAAACCGTTTGACATGAAATCAATTCCTCTTGCTATGG
CTCCTGTCTTTGAACAGAAAGCAGAAATCACACTTGTGGCTACTAAGCCAGAGAAGTTGGCTCCTCCAG
GCAAGACATTTTCAAGAACAATTGGCTGCCATTCCTGAGTTTCTGAATATAGGACCCTTGTTCAGTCT
TCTGAGCCTGTTCAACTTACAGAAGCAGAGACAGAATATTTTGTTCGATGTATCAAGCACATGTTTACCA
ATCACATCGTGTCCAGTTTGACTGCACCAACTCTCAATGACCAGCTGCTGGAAAAAGTGACAGTGCA
GATGGAGCCATCAGATTCTATGAAGTGTCTGTGTATCCCAGCCCCAGCCTTCTTATAACCAACCA
GGAATATGTTACACTCTTGTTCGTTTGCCTGATGATGACCCTACAGCAGGTAACCTCAGAAGGGAG
GAGATACGTGA
    
```

**Restriction Sites:** SgfI-MluI

**ACCN:** NM\_001290033

**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:**

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\\_001290033.1](#), [NP\\_001276962.1](#)

**RefSeq Size:** 3142 bp

**RefSeq ORF:** 2181 bp

**Locus ID:** 26958

**UniProt ID:** [Q9UBF2](#)

**Cytogenetics:** 7q32.2

**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]

Transcript Variant: This variant (2) lacks several exons and its 3'-terminal exon extends past a splice site that is used in variant 1. The encoded isoform (2) has a shorter and distinct C-terminus, compared to isoform 1.