

## Product datasheet for **TP323372**

### **COPG2 (NM\_012133) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human coatomer protein complex, subunit gamma 2 (COPG2), 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC223372 representing NM_012133 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MIKKFDKKDEESGSGSNPFQHLEKSAVLQEARIFNETPINPRRCLHILTKILYLLNQGEHFGTTEATEAF  
FAMTRLFQSNQTLRRMCYLTIKEMATISEDVVIIVTSSLTKDMTGKEDVYRGPALRALCRITDGTMLQAI  
ERYMKQAIVDKVSSVSSALVSSLHMMKISYDVVKRWINEAQEAASSDNIMVQYHALGVLYHLRKNDRLA  
VSKMLNKFTKSGLSQFAYCMLIRIASRLLKETEDGHESPLDFIESCLRKNKHEMVIYEAASAIHLPNC  
TARELAPAVSVLQLFCSSPKPALRYAAVRTLNKVMKHPSAVTACNLLENLITDSNRSIATLAITLLK  
TGSESSVDRLMKQISSFVSEISDEFKVVVQAISSALCQKYPRKHSVMMTFLSNMLRDDGGFEYKRAIVDC  
IISIVEENPESKEAGLAHLCEFIEDCEHTVLATKILHLLGKEGPRTPVPSKYIRFIFNRVLENEAVRAA  
AVSALAKFGAQNESLLPSILVLLQRCMMDDTDEVRDRATFYNLVQQRQMALNATYIFNGLTVSVPGMEK  
ALHQYTLPESEKPFDMKSIPLAMAPVFEQKAEITLVATKPEKLAPSRQDIFQEQLAAIPEFLNIGPLFKS  
SEPVQLTEAETEFVRCIKHMFNTNHIVFQFDCTNLTNDQLLEKVTVMQEPSDSYEVLSICIPAPSLPYNQP  
GICYTLVRLPDDDPTAVAGSFSCTMKFTVRDCDPNTGVPDEDGYDDEYVLEDLEVTSDHIQKVLKPNFA  
AAWEEVGDTFEKEETFALSSTKTLEEAVNNIITFLGMQPCERSDKVPENKNSHSLYLAGIFRGGYDLLVR  
SRLALADGVTMQVTVRSKERTPVDVILASVG

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

Tag:	C-Myc/DDK
Predicted MW:	97.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.



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**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_036265](#)

**Locus ID:** 26958

**UniProt ID:** [Q9UBF2](#), [A0A140VK12](#)

**RefSeq Size:** 3143

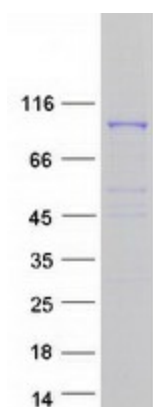
**Cytogenetics:** 7q32.2

**RefSeq ORF:** 2613

**Synonyms:** 2-COP; gamma-2-COP

**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:



Coomassie blue staining of purified COPG2 protein (Cat# TP323372). The protein was produced from HEK293T cells transfected with COPG2 cDNA clone (Cat# [RC223372]) using MegaTran 2.0 (Cat# [TT210002]).