

## Product datasheet for PH304855

### COG2 (NM\_007357) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	COG2 MS Standard C13 and N15-labeled recombinant protein (NP_031383)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204855
Predicted MW:	83.2 kDa
Protein Sequence:	>RC204855 protein sequence Red=Cloning site Green=Tags(s)

MEKSRMNLPGKPDTLCFDKDEFMKEDFDVDHFVSDCRKRVQLEELRDDLELYYKLLKTAMVELINKDYAD  
FVNLSTNLVGMDKALNQLSVPLGQLREEVLSLRSSVSEGIKRAVDERMSKQEDIRKKKMCVLRLLIQVIRSV  
EKIEKILNSQSSKETSALASSPLLGTGILERIAEFNQQLQFHAVQSKGMPLLDKVRPRIAGITAMLQSS  
LEGLLLEGLQTSVDVDIRHCLRTYATIDKTRDAEALVGQVLVKPYIDEVIEEQFVESHVNGLVQVYMYNKL  
EFVPHHCRLREVTGGAISSSEKNTVPGYDFLVNSVWPQIVQGLEEKLPFLNPGNPDFAHEKYTISMDF  
VRRLEQCGSQASVKRLRAHPAYHSFNKKWNLPVYFQIRFREIAGSLEAALTDVLEDAPAESPYCLLASH  
RTWSSLRRCWSDMFLPLLVHRLWRLTLQILARYSVFVNELSLRPI SNESPKI IKKPLVTGSKEPSITQG  
NTEDQGGSPSETKPVVSI SRTQLVYVVADL DKLQEQLP ELLI IKPKLEMIGFKNFSSISAALEDSQSSF  
SACVPSLSSKIIQDLSDSCFGFLKSALEVPRLYRRTNKEVPTTASSYVDSALKPLFQLQSGHKDKLKQAI  
IQWLEGTLESTHKYYETVSDVLSNVKMEESLKRKQARKTTPANVPGSPGGMSDDDKIRLQLALDVE  
YLGEQIQKLGQLQASDIKFSALAEVLAAAKDQATAEQP

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<a href="#">NP_031383</a>



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RefSeq Size:	2977
RefSeq ORF:	2214
Synonyms:	CDG2Q; LDLC
Locus ID:	22796
UniProt ID:	<a href="#">Q14746</a> , <a href="#">B1ALW7</a>
Cytogenetics:	1q42.2

**Summary:** This gene encodes a subunit of the conserved oligomeric Golgi complex that is required for maintaining normal structure and activity of the Golgi complex. The encoded protein specifically interacts with the USO1 vesicle docking protein and may be necessary for normal Golgi ribbon formation and trafficking of Golgi enzymes. Mutations of this gene are associated with abnormal glycosylation within the Golgi apparatus. Alternative splicing results in multiple transcript variants.[provided by RefSeq, Feb 2009]

**Protein Families:** Druggable Genome

### Product images:



Coomassie blue staining of purified COG2 protein (Cat# [TP304855]). The protein was produced from HEK293T cells transfected with COG2 cDNA clone (Cat# [RC204855]) using MegaTran 2.0 (Cat# [TT210002]).