

Product datasheet for **SC115557**

COG2 (NM_007357) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	COG2 (NM_007357) Human Untagged Clone
Tag:	Tag Free
Symbol:	COG2
Synonyms:	CDG2Q; LDLC
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC115557 sequence for NM_007357 edited (data generated by NextGen Sequencing)

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ATGGAGAAAAGTAGGATGAACCTGCCAAGGGCCGGACACGCTCTGCTTCGACAAGGAC
GAGTTCATGAAGGAAGATTTTCGATGTCGATCATTTTGTGTCTGACTGTAGGAAGCGGGTC
CAGCTGGAAGAACTGAGAGATGACCTGGAGCTCTACTATAAACTTCTTAAACAGCCATG
GTCGAACATCAACAAGGATTATGCAGATTTTGTCAATCTTTCAACAACTTGGTTGGC
ATGGACAAAGCCCTCAACCAGCTTTCTGTGCCTTTGGGACAATTACGAGAAGAGGTTCTG
AGCCTTAGATCGTCTGTCAAGGAATTTCGGGCAGTTGATGAACGAATGTCTAAACAA
GAGGACATTAGGAAAAAAGATGTGTGATTGAGGCTTATACAAGTTATTCGGTCAGTT
GAGAAAATTGAAAAATCTTAACTCTCAAAGTTCTAAAGAAACCTCTGCACTAGAAGCA
AGCAGCCCCCTTTGACTGGACAAATTTTGAGAGAATTGCCACAGAATTAATCAGTTA
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GACAAGCTTCAGGAGCAGCTTCCAGAACTCTTGGAATAATCAAGCCAAAACCTTGAAATG
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GAAGAGAGCCTGAAAAGGCTGAAACAAGCCAGAAAAACCACTCCCGCCAACCCCGTCGGT
CCCAGTGGTGGCATGAGCGACGACGACAAAATCAGGCTGCAGTTGGCCCTAGATGTTGAG
TACTTGGGAGAGCAGATACAAAAGTTGGGACTACAAGCAAGTGACATAAAAAGCTTCTCA
GCTCTCGCAGAGCTTGTTGCTGCTGCCAAGGACCAGGCAACAGCAGAGCAGCCTTAA
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Clone variation with respect to NM_007357.2

5' Read Nucleotide Sequence:	>OriGene 5' read for NM_007357 unedited NGGTTCTGAATATTTGTATACGACTCACTATAGGGCGGCNCGCGATTTCGGCACGAGNAGCG GACCCCTGTGCGGTGGAACTGGCGGTGGCCGCGCCGCGAGTCGGTCTGCGCAGCC TCCTGCGTTTTCTCGCTTGGATCTTGGCACTGAGAGGCGGTGGCCGCGGGATGGAGAAA AGTAGGATGAACCTGCCAGGGGCGGACACGCTCTGCTTCGACAAGGACGAGTTCATGA AGGAAGATTTTCGATGTCGATCATTTTGTGTCTGACTGTAGGAAGCGGGTCCAGCTGGAAG AACTGAGAGATGACCTGGAGCTCTACTATAAACTTCTTAAACAGCCATGGTCGAATCA TCAACAAGGATTATGCAGATTTTGTCAATCTTTCAACAACTTGGTTGGCATGGACAAAG CCTCAACCAGCTTTCTGTGCCTTTGGGACAATTACGAGAAGAGTTCTGAGCCTTAGAT CGTCTGTCACTGAAGGAATTCGGGCAGTTGATGAACGAATGTCTAAACAAGAGGACATTA GGAAAAAAGATGTGTATTGAGGCTTATACAAGTTATTCGGTCAGTTGAGAAAATTG AAAAAATCTTAACTCTCAAAGTTCTAAAGAACTCTGCACTAGAAGCAAGCAGCCCC TTTTGAAGTGGACAAATTTGGAGAGAATTGCCACAGAATTTAATCAGTTACAGTTTCATG CTGTTTANAGCANAGGCATGCCTCTTTTGNACANAGTAGACCGGTATAGCTGGCATT CAGCCATGTTACAGCAGTCACTGGGAAGGTCTNCTATTAGAAGGCCTTCAGACGTCTGAC GTCGATATAATACGGCACTGCTTGGGACTTACGCCACGATTGACAAGACCGNNACGCG AGGCCTTAC
3' Read Nucleotide Sequence:	>OriGene 3' read for NM_007357 unedited CCGCGCCGCAATCTAGAGTCGAGTTTTTTTTTTTTTTTTTTGGGAGACACTTCTTTTAT TTAGGAAGGAGGTCTTCTACTGGCGCCGCTCCTGCCAGAGGTGGGGTGACAGCAGG ATCAGAAGCACTGCTCTCACACACAGTGGGAGTGGAGGATGGCTTCCCGCAGCCTCTTTA GAAAGCCAGGAGTTCTCTTTATTTAGAGAAGGGCATTCTATACAAGACATCATTCCA TTACAGTCGTCACCTTCCAACACAGGCTCAGGGAGACGACTCTTGATATTCATAGGTATA TATTTACTTTAATCATATTTTAGAAATCAGCTCTTCCACACTAAGATTTACAATAAAAAAT AAAATAATTTGTCTGTAACTATAGTAGAAAGTTTCAAATGTCTTAAAACTATCTTCC ATACAATGGAAAAAGGCTTTTGTGTTCTTTGGGCAAAGAAGACCCAAATACGCTGAGAG AAGACGCATGGGCGTGTGCTGGAGTGATGCTGGAAGCACTTCTTTGCTACAGACGGTTG CTAAGAGAACAGAGTCACTTTCTCCCTTCAGCCTGGAAGTCCAACCTCTTCTCTTGCTTA AGAATCTAACCTCGGGATCTTCCAAGATGCTTAAGGCTGCTCTGCTGTTGCCTGGTCTT GGCAGCAGCAACAAGCTCTGCGAGAGCTGAGAAGCTTNTATGTCACCTTGCTTGTAGTCCC AACTTTTGTATCTGCTCTCCAGTACTCAACATCTAGGGCCAACCTGCAGCCTGATTTTGT CGTCGTCGCTCATGCCACCACTGGGACCGACNGGGTTGGCGGGNAGTGGTTTTTCTGG CTTGTTTCAGCTTNTCAGGCTCTTNCATCTTCTCACAGAGTTTATACATCTGACACCG TTCATAGACTTATGAAGGCTTACTGAAAAGGCCTCTAACCTGCGAATATTGCTGNTGGA
Restriction Sites:	NotI-NotI
ACCN:	NM_007357
Insert Size:	2770 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:

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_007357.1](#), [NP_031383.1](#)

RefSeq Size: 2904 bp

RefSeq ORF: 2217 bp

Locus ID: 22796

UniProt ID: [Q14746](#)

Cytogenetics: 1q42.2

Protein Families: Druggable Genome

Gene 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]
Transcript Variant: This variant (1) encodes the longer isoform (1).