

## Product datasheet for **SC120695**

### COG1 (NM\_018714) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COG1 (NM_018714) Human Untagged Clone
Tag:	Tag Free
Symbol:	COG1
Synonyms:	CDG2G; LDLB
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_018714, the custom clone sequence may differ by one or more nucleotides

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ATGGCCACCGCGGAACCTCACCCGCGCTGAAGCGGCTGGATCTGCGCGACCCTGCGGCTCTTTTCGAGA
CGCATGGAGCGGAGGAGATCCGCGGGCTGGAGCGCCAGGTTTCGGGCCGAGATCGAGCACAAGAAGGAGGA
CGCTGCGCGAGATGGTGGCGAACCGTACCGCGACCTGATCGAGGGCGCCGACACCATCGGCCAGATGCGC
CGCTGCGCCGTGGGGCTAGTGGACGCCGTGAAGGCCACCGACCAGTACTGCGCCCGCTCCGCCAGGCCG
GCTCGGCCGCGCCCGGCCACCGCGGGCCAGCAGCCACAGCAGCCATCCAGGAGAAGTCTACAGCAT
GGCTGCCCAGATCAAGCTACTCTTAGAAATTCGGAGAAGATCTGGAGCTCGATGGAAGCCTCTCAGTGT
CTCCACGCCACACAGCTTACCTGCTCTGCTGCCACCTCCACAGCCTGCTCCAGTGGATTCTTCTAGTT
CCCATACAGTCCCGTCTCTCCCGTTTCTATACTCATCCGGCAGGTGGCAGCCGCCAGCCACTTCCG
GTCAACTATTCTGCATGAAAGCAAGATGTTGCTCAAATGCCAAGGTGTGTCTGACCAAGCTGTGGCCGAG
GCCCTGTGCTCTATAATGCTCTTAGAAGAGAGTTCTCCTCGCCAAGCCCTCACAGACTTCTGCTGGCCA
GAAAGGCAACTATTCAGAACTTCTCAACCAGCCACACCATGGTGTGGTATCAAGGCTCAGATTTGCTC
ATTAGTGGAGTTGCTGGCCACCCTCTGAAGCAAGCTCATGCCCTTTTCTACACTTTGCCAGAAGGACTG
CTGCCAGATCCAGCCCTGCCATGTGGCTTGTCTTCTACTCTGGAGACCATCACAGGCCAGCATCCTG
CCGAAAGGGCACTGGTGTCTGCAGGAAGAGATGAAACTCTGCAGCTGGTTAAACACCTGCCAGCATC
CATCGTCGAGTCCAGCCAACACTCCGAACCTTGACATCCCATCAGTCAGGAATACCTGAAAGACACG
CTGCAGAAATGGATCCACATGTGAATGAAGACATTAATAATGGGATCACCAACCTGCTCATGTACGTGA
AGAGCATGAAGGGTCTCGCGGAATCCGGGACGCCATGTGGGAGTTACTTACCAATGAGTCCACCAATCA
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CTGTTCTTGACCGATTACAGACTCTGACAAAAGAAGGCTTTGACTCCATCTCCAGTAGCTCAAGGAA
TCTTGGTTTCAGCTTTGCAGGAACCTTGAAGCAGCACCAGCAACTCCCCTTCAAATAAGCACATCCACTT
TGAGTACAACATGTCGCTCTTCTCTGGTCTGAGAGTCTAATGACCTGCCTTCCGATGCGGCTGGGTG
AGCGTGGCAAACCGGGTCAAGTTTCCAGTAGCGGCTCTCCATGAAAGCACAAGCCATCAGCCCTGTG
TACAGAACTTCTGTTCTGCCCTGGATTCTAAGCTGAAGGTTAACTAGATGACCTCCTGGCTTACCTCCC
CTCTGATGACTCATCACTGCCAAGGACGTTTCTCCACACAGGCCAAGAGTTCTGCCTTTGACAGATAC
GCAGATGCGGGGACCGTGCAGGAGATGCTGCGGACTCAGTCCGTGGCATGCATCAAGCACATCGTGGACT
GCATCCGGGCAGAGCTACAGAGCATTGAAGAGGGTGTGCAAGGGCAACAGGATGCCCTCAACAGTGCCAA
GCTGCACTCAGTTCTTTTATGCGCCAGACTCTGCCAGTCCCTGGGAGAGCTGTGCCCCATCTGAAGCAG
TGCATCCTGGGAAAATCAGAGAGCTCAGAGAAACCAGCAAGGGAGTTTAGGGCTCTGAGAAAACAGGGAA
AGGTGAAAACAGGAAATCATTCTACACAGGCCAAGTGGCAAGAGGTTAAAGAAGTACTCCTCCAGCA
GAGCGTATGGGCTACCAGGCTGGAGCAGTGCAGTTGTGAAAGTTTGGATTATGGATTACCCAGTCA
TTACTTCTAGATGATGCTGGCTCAGTTCTGGCCACAGCCACCAGCTGGGATGAGCTAGAAATTCAGGAGG
AGGCAGAGTCTGGCAGCAGTGTACATCCAAGATCCGACTCCCTGCACAGCCGCTCCTGGTATGTACAGTC
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GAGATGCTGAAAAGCTGTATGGTTCAAGTAGTAGCTGCCTATGAGAACTCTCCGAAGAAAACAGATTA
AGAAAGAAGGTGCATTTCCAGTCAACCAGAACCGGCGTGCAGCTGCTTATGATCTGCGTTACCTCAA
CATTGTTCTGACAGCCAAGGGTACAGAGTGAAGAGTGGCCGGAGCAAGCCAGACTCCAGAATTGAGAAA
GTGACTGACCACCTGGAAGCCCTCATTGATCCATTTGACCTGGACGTTTTTACGCCACACCTCAACAGCA
ACCTTCATCGCCTGGTGCAGCGAACTTCTGTTCTGTTTGGATTGGTACTGGTACAGAGAATCAGCTCGC
CCCCGGAGCAGTACGTTCAACTCCAAGAACCCATAACATCCTGCCACTGGCATCCAGTCAGATCAGG
TTTGGACTTCTCCACTGAGCATGACAAGCACTCGAAAGGCTAAATCAACCAGAAACATCGAAACAAAAG
CTCAGGTTGTCCCCCGGCACGCTCCACAGCTGGTGACCCGACAGTTCTGGCTCCTTGTTCAGACAGCT
TGTCAGTGAAGAAGACAACAGCTCTGCACCTTCATTATTCAAACTGGCTGGCTCTCTAGTATGACTAAG
TAA
    
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_018714 unedited CCAGAATTTGTAATACGACTCACTATAGGGCGGCCGCGGGGCTGACGAGTGCACCATGGC CACCGCGCAACCTCACCCGCGCTGAAGCGGCTGGATCTGCGCGACCCTGCGGCTCTTTT CGAGACGCATGGAGCGGAGGAGATCCGCGGGCTGGAGCGCCAGGTTGGGGCCGAGATCGA GCACAAGAAGGAGGAGCTGCGGCAGATGGTGGGCGAACGGTACCGCGACCTGATCGAGGC GGCCGACACCATCGGCCAGATGCGCCGCTGCGCCGTGGGGCTAGTGGACGCCGTGAAGGC CACCGACCAGTACTGCGCCCGCTCCGCCAGGCCGCTCGGCCGCGCCCGGCCACCGCG GGCCAGCAGCCACAGCAGCCATCCCAAGAGAAGTTCTACAGCATGGCTGCCAGATCAA GCTACTCTTAGAAATTCGGAGAAGATCTGGAGCTCGATGGAAGCCTCTCAGTGTCTCCA CGCCACACAGCTTACCTGCTCTGCTGCCACCTCCACAGCCTGCTCCAGCTGGATTCTTC TAGTTCGGATACAGTCCCGTCTCTCCCGTTTCTATACTCATCCGGCAGGTGGCGGC CGCCAGCCACTCCGGTCAACTATTCTGCATGAAAGCAAGATGTTGCTCAAATGCCAAGG TGTGTCTGACCAAGCTGTGGCCGAGCCCTGTGCTCTATAATGCTCTTAGAAGAAGATC TCCTCGCCAAGCCCTCACAGACTTCTGCTGGCCAGAAAGGCACTATTACAGAACTTCTC ACCAGCCACACATGGTGTGGTATCAAGGGCTCAGATTGCTCATTAGTGGAGTTGCTGGN CACCACTCTGAAGCAGCTCATGCCCTTTTACCTTTGCCAGAAGACTGCTNGCAGATCCA NCCTGCATGTGGCTTGTCTTTCTACTCTGGAGACATACAGCCAGCTCTGCCGGAAGGCC TGGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_018714
<b>Insert Size:</b>	2500 bp
<b>OTI Disclaimer:</b>	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).
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"> <li>1. Centrifuge at 5,000xg for 5min.</li> <li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li> <li>3. Close the tube and incubate for 10 minutes at room temperature.</li> <li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li> <li>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.</li> </ol>
<b>RefSeq:</b>	<u><a href="#">NM_018714.1</a></u> , <u><a href="#">NP_061184.1</a></u>
<b>RefSeq Size:</b>	3035 bp
<b>RefSeq ORF:</b>	2943 bp
<b>Locus ID:</b>	9382
<b>UniProt ID:</b>	<u><a href="#">Q8WTW3</a></u>
<b>Cytogenetics:</b>	17q25.1
<b>Protein Families:</b>	Druggable Genome

**Gene Summary:**

The protein encoded by this gene is one of eight proteins (Cog1-8) which form a Golgi-localized complex (COG) required for normal Golgi morphology and function. It is thought that this protein is required for steps in the normal medial and trans Golgi-associated processing of glycoconjugates and plays a role in the organization of the Golgi-localized complex. [provided by RefSeq, Jul 2008]