

## Product datasheet for **SC100852**

### COG7 (NM\_153603) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	COG7 (NM_153603) Human Untagged Clone
Tag:	Tag Free
Symbol:	COG7
Synonyms:	CDG2E
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Cell Selection:	None



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**Fully Sequenced ORF:** >NCBI ORF sequence for NM\_153603, the custom clone sequence may differ by one or more nucleotides

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ATGGACTTCTCCAAGTTCCTGGCAGACGACTTCGACGTGAAGGAGTGGATCAATGCGGCCTTCAGGGCCG
GCTCCAAGGAGGCGCGTCCGGGAAGGCGGATGGCCACGACCCACCCTGGTGATGAAGCTGCAGCTGTT
CATCCAAGAGGTGAACACGCGCTGGAGGAAACAAGTACCAAGCTCTCCAGAACATGCCAAAGTGCTC
CGTGATGTTGAAGCCCTAAAACAGGAGGCATCTTCTGAAAGAACAGATGATTCTTGCAAGGAGGACA
TTAAAAAATTTGAACAGGACACATCTCAATCCATGCAGGTGTTGGTAGAAATTGACCAAGTGAAGTCCAG
AATGCAACTTGCTGCCGAATCTCTTCAGGAAGCAGATAAGTGGAGCACGTTGAGCGCCGATATTGAGGAG
ACATTTAAGACTCAGGACATAGCTGTGATTTCTGCCAAGCTAACAGGTATGCAGAACAGCTTAATGATGC
TTGTTGATACACCAGACTACTCAGAAAAGTGTGTGCACTTGGAGGCACTGAAGAACAGGCTGGAGGCCCT
AGCCAGTCCACAGATTGTAGCGGCACTTACCTCTCAGGCTGTAGATCAGTCCAAAGTGTGTTGTAAGGTG
TTTACTGAAATTGACCGGATGCCCCAGCTCCTGGCCTACTACTACAAGTGTACAAGGTGCAGCTTTTAG
CAGCCTGGCAAGAGCTGTGTCAAAGTGACCTATCCCTGGACCGGCACTTACCGACTCTATGATGCCTT
GCTTGGTGCTTGGCACACACAAATCCAGTGGGCTACACAGGTTTTCCAGAAGCCCCACGAGGTGGTAATG
GTGCTGCTGATTAGACCTGGGGGCCCTCATGCCCTCGCTGCCCTCCTGCCTCAGCAACGGCGTGGAGA
GGGCAGGGCCCGAGCAGGAGCTCACCAGGCTGCTGGAGTTCTACGACGCCACCGCCACTTCGCCAAGGG
CTTGGAGATGGCACTGCTCCCCACCTACATGAACACAATCTGGTAAAAGTACGGAGCTGGTGGATGCT
GTGTATGATCCATACAAACCTACCAGCTGAAGTATGGCGACATGGAAGAGAGCAACCTCCTCATCCAGA
TGAGTGTGTGCTCTGGAGCATGGGGAAGTGATTGACTGTGTGCAGGAGCTGAGCCACTCCGTGAACAA
GCTGTTTGGTCTGGCGTCTGCAGCCGTTGACAGATGCGTCAGATTCACCAATGGCCTGGGACCTGCGGC
CTGTTGTCAGCCCTGAAATCCCTCTTTGCCAAGTATGTGTCTGATTTACCAGCACTCTCCAGTCCATAC
GAAAGAAGTGCAAACCTGGACCACATTCCTCCCAACTCCCTCTCCAGGAAGATTGACGGCTTTTCAGAA
CTCCATTAGGATAATAGCCACCTGTGGAGAGCTTTTGGCGCATTGTGGGACTTCGAGCAGCAGCTAGCC
AACAGGATTTTGTCCACAGCTGGGAAGTATCTATCTGATTCTGCAGCCCCGGAGCCTGGCTGGTTTTT
AGGAGAGCATCTTGACAGACAAGAAGAACTCTGCCAAGAACCCATGGCAAGAATAAATTACCTCCAGAA
AGATAACCCTGCTGAATATGCCAGTTTAAATGGAATACTTTATACCCTTAAGGAAAAAGGGTCAAGCAAC
CACAACTGCTGGCTGCACCTCGAGCAGCGCTGACTCGGCTTAACCAGCAGGCCACCAGCTGGCTTTTCG
ATTCGGTGTCTGCGCATCAAACAACAGCTGTTGCTTATTTGAAAGATGGACAGCTGGAATACGGCTGG
CATCGGAGAAACCCTCACAGATGAAGTCCCGCTTTAGTCTCACCCCTCTCGAGTACATCAGCAACATC
GGCAGTACATCATGTCCCTCCCTGAACTCTGAGCCATTTGTGACTCAGGAGGACTCTGCCTTAGAGT
TGGCATTGCACGCTGAAAGCTGCCATTTCTCCTGAGCAGGGGGATGAATTGCCCGAGCTGGACAACAT
GGCTGACAACCTGGCTGGGCTCGATCGCCAGAGCCACAATGCAGACCTACTGTGATGCGATCCTACAGATC
CCTGAGCTGAGCCCACTCTGCCAAGCAGCTGGCCACTGACATCGACTATCTGATCAACGTGATGGATG
CCCTGGGCTGCAGCCGTCGCCACCCTCCAGCACATCGTGACGCTACTGAAGACCAGGCTGAGGACTA
TAGACAGGTCAGCAAAGGCTGCCCGTCGCTGGCCACCACCGTGGCCACCATGCGGAGTGTGAATTAC
TGA
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<b>5' Read Nucleotide Sequence:</b>	>OriGene 5' read for NM_153603 unedited CACCAGGGAAACGCAAAGGGCAAGTTACCCGCTCCTGGCGTTTCTGGGGTTCGCCTCGGAG GCTAGCCTCGGTGCTCTCGCAGGCTCGCTCGCTTCTGCATCCCCGTTGCCGCCGGAGCC AACTCTTAAGTTCTGGACGCCAGGCCTGAGGCAGTTCCGCCATGGACTTCTCAAGTTCC TGGCAGACGACTTCGACGTGAAGGAGTGGATCAATGCGGCCTTCAGGGCCGGCTCCAAGG AGCGCGGTCCGGGAAGGCGGATGGCCACGCAGCCACCCTGGTGATGAAGCTGCAGCTGT TCATCCAAGAGGTGAACCACGCCGTGGAGGAAACAAGTACCAAGCTCTCCAGAACATGC CCAAAGTGCTCCGTGATGTTGAAGCCCTAAAACAGGAGGCATCTTCTGAAAGAACAGA TGATTCTGTCAAGGAGGACATTAATAAATTTGAACAGGACACATCTCAATCCATGCAGG TGTTGGTAGAAATTGACCAAGTGAAGTCCAGAATGCAACTTGCTGCCAATCTCTTCAGG AAGCAGATAAGTGGAGCACGTTGAGCGCCGATATTGAGGAGACATTTAAGACTCAGGACA TAGCTGTGATTTCTGCCAAGCTAACAGGTATGCAGAACAGCTTAATGATGCTTGTGATA CACCAGACTACTCAGAAAAGTGTGTGCACTTGGAGGCACTGAAGAACAGGCTGG
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_153603
<b>Insert Size:</b>	3000 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_153603.1</a></u> , <u><a href="#">NP_705831.1</a></u>
<b>RefSeq Size:</b>	2792 bp
<b>RefSeq ORF:</b>	2313 bp
<b>Locus ID:</b>	91949
<b>UniProt ID:</b>	<u><a href="#">P83436</a></u>
<b>Cytogenetics:</b>	16p12.2
<b>Gene Summary:</b>	The protein encoded by this gene resides in the golgi, and constitutes one of the 8 subunits of the conserved oligomeric Golgi (COG) complex, which is required for normal golgi morphology and localization. Mutations in this gene are associated with the congenital disorder of glycosylation type IIe.[provided by RefSeq, May 2010]