

Product datasheet for **SC318321**

GCS1 (MOGS) (NM_006302) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	GCS1 (MOGS) (NM_006302) Human Untagged Clone
Tag:	Tag Free
Symbol:	MOGS
Synonyms:	CDG2B; CWH41; DER7; GCS1
Vector:	<u>pCMV6 series</u>



[View online »](#)

Fully Sequenced ORF: >NCBI ORF sequence for NM_006302, the custom clone sequence may differ by one or more nucleotides

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ATGGCTCGGGGCGAGCGGCGGCGCCGCGCAGTGCCGGCAGAGGGAGTGCGGACAGCCGAG
AGGGCGGCTCGGGGAGGCCCGGGCGACGGGACGGCCGGGGCGGCGGGCCGCTAGCACG
GCTGGAGGAGTGGCTCTGGCCGTCGTGGTCCTGTCTTTGGCCCTGGGTATGTCGGGGCGC
TGGGTGCTGGCGTGGTACCGTGCGCGGGCGGGTACGCTGCACTCCGCGCCTCCTGTG
TTGCCTGCCGACTCCTCCAGCCCCGCGTGCCCGGACCTCTTCTGGGGAACCTACCGC
CCTCACGTCTACTTCGGCATGAAGACCCGACGCCGGAAGCCCTCCTACCGGACTGATG
TGGGCGCAGCAGGGCACACCCCGGGACTCCTAAGCTCAGGCACACGTGTGAGCAGGGG
GACGGTGTGGTCCCTATGGCTGGGAGTTCACGACGGCCTCTCCTTCGGGCGCCAACAC
ATCCAGGATGGGGCCTTAAGGCTCACCAGTTCGTCGCAAGAGGCTGGGGTCAAGCAC
GGAGGGGACTGGAGCTGGAGAGTACTGTAGAGCCTCAGGACTCAGGACTTCTGCCCTC
CCTTTGGTCTCCCTGTTCTTCTATGTGGTGACAGATGGCAAGGAAGTCTACTACCAGAG
GTTGGGGCCAAGGGCAGTTGAAGTTTATCAGTGGGCACACCAGTGAAGTGGTGACTTC
CGCTTTACACTTTTGCCACCAACCAGTCCAGGGGATACAGCCCCAAGTATGGCAGCTAC
AATGTCTTCTGGACCTCCAACCCAGGACTGCCCTGCTGACAGAGATGGTAAAGAGTCGC
CTAAATAGCTGGTTTCAGCATCGGCCCCAGGGGCCCCCTGAACGCTACCTCGGCTTG
CCAGGATCCCTGAAGTGGGAGGACAGAGGTCGAAGTGGGCAAGGGCAGGGGAGTTCCTG
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GCCCAGGCAGGAGGAAATCAAGCCCTGCCAAGACTGGCAGGCAGTCTACTGACCCAGGCC
CTGGAGAGCCATGCTGAAGGCTTAGAGAGCGCTTTGAGAAGACCTTCCAGCTGAAGGAG
AAGGGCTGAGCTCTGGCGAGCAGGTTTTGGGTGAGGCTGCCCTCAGCGGCCCTCCTTGGT
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GAGCAGAAGGTGGACCCAGCCCTTTCCACCCGTACCTTTTTTACAGCAGTGCCTCC
CGGTATTCTTCCACGAGGCTTCTTTGGGATGAAGGCTTTCACCAGCTGGTGGTTCAG
CGGTGGGATCCCTCCCTACCCGGGAAGCCCTTGCCACTGGTGGGGTCTAAATGCT
GATGGCTGGATTGGGAGGGAGCAGATACTGGGGATGAGGCCGAGCCCGGGTGCCTCCA
GAATTCCTAGTACAACGAGCAGTCCACGCCAACCCCAACCCTACTTTTGCCTGTAGCC
CATATGCTAGAGGTTGGTACCCTGACGACTTGGCTTTCCTCCGAAAGGCCTTGCCCGC
CTGCATGCCTGGTTTTCTGGCTCCATCAGAGCCAGGCAGGCCACTGCCACTATCTTAC
CGCTGGCGGGGACGGGACCCTGCCTTACCAACCTTACTGAACCCCAAGACCCTACCTCT
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CGATGTTGGGTGGCACTGGGTGCCCGTGTGCTGACGCGGCTGGCAGAGCATCTGGGTGAG
GCTGAGGTAGCTGCTGAGCTGGGCCACTGGTGCCTCACTGGAGGCAGCAGAGAGCCTG
GATGAGCTGCACTGGGCCCCAGAGCTAGGAGTCTTTGCACTTTGGGAACACACAAAA
GCAGTACAGCTGAAGCCAGGCCCTCAGGGGCTCGTTCCGGTGGTGGGTCGGCCCCAA
CCTCAACTGCAGTATGTAGATGCTCTTGGCTATGTCAGTCTTTTTCCCTTGTCTGCGA
CATCTGGACCCCACTCATCCCCTTGGGCCCTGCTGGACATTCTAGCCGACAGCCGC
CATCTGGAGCCCTTTGGTTTACGCTCCCTTGCAGCCTCCAGTCTCTTTTATGGCCAG
CGCAATTCAGAGCATGATCCCCCTACTGGCGGGTGTGTGTGGCTCAATGTCAACTAC
CTGGCTTTGGGAGCACTCCACCCTATGGGCATCTGGAGGCTCCTCACCAGGCTCGGGCT
GCCAAACTCCACGGTGAAGCTCCGTGCCAACGTGGTAGGCAATGTATGGCGCCAGTACCAG
GCTACAGGCTTTCTTTGGGAGCAGTACAGTGACCCGATGGGCGAGGCATGGGCTGCCG
CCTTCCACGGCTGGACCAGCCTTGTCTTACTGGCCATGGCTGAAGACTAC

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Restriction Sites: Please inquire
ACCN: NM_006302

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).
OTI Annotation:	This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
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:	<ol style="list-style-type: none"> 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:	<u>NM_006302.2</u> , <u>NP_006293.2</u>
RefSeq Size:	2910 bp
RefSeq ORF:	2514 bp
Locus ID:	7841
UniProt ID:	<u>Q13724</u>
Cytogenetics:	2p13.1
Domains:	Glyco_hydro_63
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Metabolic pathways, N-Glycan biosynthesis
Gene Summary:	<p>This gene encodes the first enzyme in the N-linked oligosaccharide processing pathway. The enzyme cleaves the distal alpha-1,2-linked glucose residue from the Glc(3)-Man(9)-GlcNAc(2) oligosaccharide precursor. This protein is located in the lumen of the endoplasmic reticulum. Defects in this gene are a cause of type IIb congenital disorder of glycosylation (CDGIIb). Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Mar 2009]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (1).</p>