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Product datasheet for RC206689L2V

GCS1 (MOGS) (NM_006302) Human Tagged ORF Clone Lentiviral Particle

Product data:

Product Type:	Lentiviral Particles
Product Name:	GCS1 (MOGS) (NM_006302) Human Tagged ORF Clone Lentiviral Particle
Symbol:	GCS1
Synonyms:	CDG2B; CWH41; DER7; GCS1
Mammalian Cell Selection:	None
Vector:	pLenti-C-mGFP (PS100071)
Tag:	mGFP
ACCN:	NM_006302
ORF Size:	2511 bp
ORF Nucleotide Sequence:	The ORF insert of this clone is exactly the same as(RC206689).
OTI Disclaimer:	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info
OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
RefSeq:	NM_006302.2
RefSeq Size:	2910 bp
RefSeq ORF:	2514 bp
Locus ID:	7841
UniProt ID:	Q13724
Cytogenetics:	2p13.1
Domains:	Glyco_hydro_63
Protein Families:	Druggable Genome, Transmembrane

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Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

MW: 91.9 kDa

Gene Summary: 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]