

Product datasheet for RC207769

SLC35A2 (NM_001032289) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC35A2 (NM_001032289) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC35A2
Synonyms:	CDG2M; CDGX; UDP-Gal-Tr; UGALT; UGAT; UGT; UGT1; UGT2; UGTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC207769 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCCGATCGCC

ATGGCAGCGGTTGGGGCTGGTGGTTCCACCGCGGCCCGGGCCAGGGGCGGTTCCGCGGGTGCATTGG
AGCCGGGGACCGCAGTGCAGCTCACAGGCGCCTGAAGTACATATCCCTAGCTGTGCTGGTGGTCCAGAA
TGCCTCCCTCATCCTCAGCATCCGCTACGCCGACGTTGCCAGGGGACCGCTTCTTTGCCACCACTGCT
GTGGTCATGGCGAAGTGTCAAAGGTCTCACCTGCCTGCTGCTCTTCGCACAGAAGAGGGGTAAACG
TGAAGCACCTGGTCTCTTCCCTCATGAGGCTGTCTGGTGCAGTATGTGGACACGCTCAAGCTCGCAGT
GCCTCTCTCATCTACACCTTGCAGAATAACCTCCAGTATGTTGCCATCTCTAACCTACCAGCTGCCACT
TTCCAGCCTTCCCGAGGTGCAGCCAAAGCCATAGCCTCTGCCTCTGCCTCCGCTCCGGGCCCTGCGTT
CACCAGCAGCCTCCCGGGCAGCCACCACCAGCAGTGTCTTCCACCGTGGAGACCTCATCACGGAGC
CCTTTCTGCCAAAGTCAAGTGTGGTGAAGTGAAGTGGGGCTGGCAGCAATGGGGGGACACAAGGGAGGGGGACT
GGGGTGGAGGGTGTGGGCATCTGCAGGACCAAGTCGCCACCCTCCGGGGCCTGGCTCTCTGGGTTTG
GGAGATGGTCTTTCTCCAGGTCAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC207769 protein sequence
 Red=Cloning site Green=Tags(s)

MAAVGAGGSTAAPGPGAVSAGALEPGTASAAHRRLLKYISLAVLVVQNASLILSIRYARTLPGDRFFATTA
 VVMAEVLKGLTCLLLFAQKRGVVKHLVFLHEAVLVQYVDTLKLAVPSLIYTLQNNLQYVAISNLPAAAT
 FQPSPRCSQSHSLCLCLRLRALRSPAASRAATTTAAVFPWRPHHGALSAKVSAGEVRAGSNGGTQGRGT
 GVEGVGHLQDPSRHPPGPGSSGFGRWSFLPGH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6338_c12.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001032289

ORF Size: 726 bp

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.

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_001032289.3](#)

RefSeq Size: 2029 bp

RefSeq ORF: 729 bp

Locus ID: 7355

UniProt ID: [P78381](#)

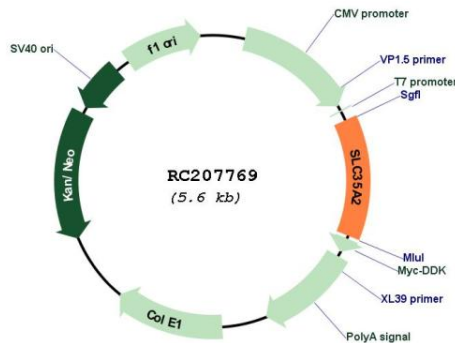
Cytogenetics: Xp11.23

Protein Families: Transmembrane

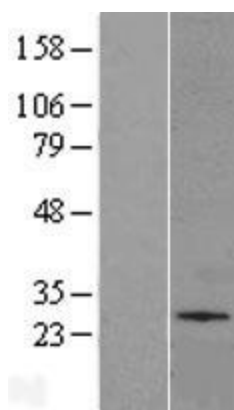
MW: 25.2 kDa

Gene Summary: This gene encodes a member of the nucleotide-sugar transporter family. The encoded protein is a multi-pass membrane protein. It transports UDP-galactose from the cytosol into Golgi vesicles, where it serves as a glycosyl donor for the generation of glycans. Mutations in this gene cause congenital disorder of glycosylation type II_m (CDG2M). Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene. [provided by RefSeq, Oct 2014]

Product images:



Circular map for RC207769



Western blot validation of overexpression lysate (Cat# [LY422299]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC207769 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).