

Product datasheet for SC311260

SLC35A2 (NM_001042498) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC35A2 (NM_001042498) Human Untagged Clone
Tag:	Tag Free
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)
Fully Sequenced ORF:	>SC311260 representing NM_001042498. Blue=Insert sequence Red=Cloning site Green=Tag(s)

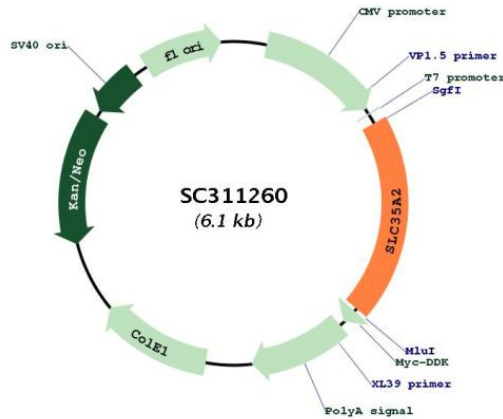
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GCTCGTTT TAGTGAACCGTCAGAATTTTGT AATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCC CGGATCGCC
ATGGCAGCGGTTGGGGCTGGTGGTTCCACCGCGGCCCGGGGCCAGGGGCGGTTTCCGCGGGTGCATTG
GAGCCGGGACCGCCAGTGCGGCTCACAGGCGCCTGAAGTACATATCCCTAGCTGTGCTGGTGGTCCAG
AATGCCTCCCTCATCCTCAGCATCCGCTACGCCGCACGTTGCCAGGGGACCGCTCTTTGCCACCACT
GCTGTGGTCATGGCGGAAGTGCTCAAAGGTCTCACCTGCCTGCTGCTCTTCGCACAGAAGAGGGGT
AACGTGAAGCACCTGGTCTCTCCTCCATGAGGCTGTCTGGTGCAGTATGTGGACACGCTCAAGCTC
GCAGTGCCCTCTCATCTACACCTTGAGAATAACCTCCAGTATGTTGCCATCTCTAACCTACCAGCT
GCCACTTTCAGGTGACATACCAGCTGAAGATCCTGACCACAGCGCTGTTCTCCGTGCTCATGCTGAAT
CGCAGCCTTTCGGGCTGCAGTGGGCTCCCTGCTGCTCCTTCACTGGCGTCGCCATTGTCCAGGCA
CAGCAAGCCGGTGGGGAGGCCACGGCCACTGGATCAGAACCCTGGGGCAGGCCTGGCAGCCGTCGTG
GCCTCCTGTCTCCTCCGGCTTCGAGGTGTCTACTTTGAGAAGATCCTCAAAGGCAGCTCAGGCTCC
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GAGGGTACCGCGTGGCCACCCGTGGTTCTTTTTGGGTACACACCTGCTGTCTGGGCGTGGTGTCTC
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GCCACCTCCCTGTCCATTGTGCTGCCACTGTTGCCTCCATTGCCTCTTTGGCTCCACGTGGACCCA
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AAAGCCATAGCCTCTGCCTCTGCCTCCGCTCCGGGCCCTGCGTTACCAGCAGCCTCCCGGCAGCCA
CCACCACCGAGCTGTCTCCACCGTGGAGACCTCATCAGGAGCCCTTCTGCCAAAGTCAGTGCTG
GTGAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTTAAACGGCCGGC
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Restriction Sites: Sgfl-Mlul



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Plasmid Map:



ACCN: NM_001042498

Insert Size: 1182 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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 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:

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_001042498.2](#)

RefSeq Size: 2619 bp

RefSeq ORF: 1182 bp

Locus ID: 7355

UniProt ID: [P78381](#)

Cytogenetics: Xp11.23

Protein Families: Transmembrane

MW: 41 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]

Transcript Variant: This variant (3, also known as UGT1) differs in the 3' exon structure, compared to variant 1. The encoded isoform (c) is shorter and has a distinct C-terminus, compared to isoform a.