

## Product datasheet for SC335916

### SLC35A2 (NM\_001282650) Human Untagged Clone

#### Product data:

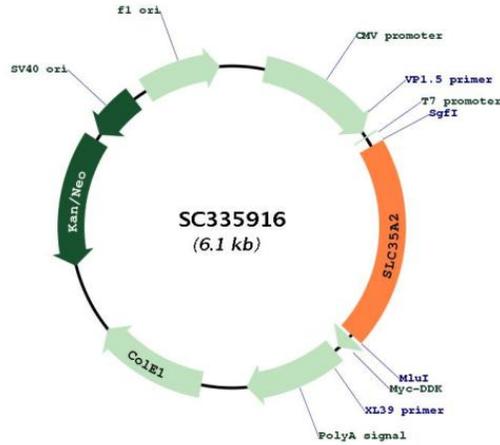
Product Type:	Expression Plasmids
Product Name:	SLC35A2 (NM_001282650) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC35A2
Synonyms:	CDG2M; CDGX; UDP-Gal-Tr; UGALT; UGAT; UGT; UGT1; UGT2; UGTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Fully Sequenced ORF:	>SC335916 representing NM_001282650. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTTGTAAACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCGCGATCGCC
ATGGCAGCGGTTGGGGCTGGTGGTTCCACCGCGGCCCGGGGCCAGGGGCGGTTTCCGCGGGTGCATTG
GAGCCGGGGACCGCCAGTGCAGGTGAGACAGTCTGCCGAGCAGTCGCATGGGAGCGGAGCTCACAGG
CGCCTGAAGTACATATCCCTAGCTGTGCTGGTGGTCCAGAATGCCTCCCTCATCTCAGCATCCGCTAC
GCCCGCACGTTGCCAGGGGACCGCTTCTTCCACCAGTCTGTGGTTCATGGCGGAAGTGTCAAAGGT
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GAGGCTGTCTGGTGCAGTATGTGGACAGCTCAAGCTCGCAGTGCCTCTCTCATCTACACCTTGCAG
AATAACCTCCAGTATGTTGCCATCTCTAACCTACCAGCTGCCACTTCCAGGTGACATACCAGCTGAAG
ATCCTGACCACAGCGCTGTTCTCCGTGCTCATGCTGAATCGCAGCCTTCCCGGCTGCAGTGGGCTCC
CTGCTGCTCCTTCACTGGCGTCGCCATTGTCCAGGCACAGCAAGCCGGTGGGGAGGCCACGGCCA
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GTCTACTTTGAGAAGATCCTCAAAGGCAGCTCAGGCTCCGTGTGGCTGCCAACCTGCAACTGGGCTC
TTCGGCACAGCACTGGGCTGGTGGGCTCTGGTGGGCTGAGGGTACCGCGTGGCCACCGTGGTTTC
TTTTTTGGGTACACACCTGCTGTCTGGGCGTGGTGTCAACAGGCCTTCGGCGGGCTACTGGTGGCT
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GGTGTGTCTACCTCTACAGCCTTCCCCGAGGTGCAGCCAAAGCCATAGCCTCTGCCTCTGCCTCCGCC
TCCGGGCCCTGCGTTACCAGCAGCCTCCCGGGCAGCCACCACCACCGCAGCTGTCTCCACCCTGGA
GACCTCATACGGAGCCCTTCTGCCAAAGTCAGTGTGGTGAAGTGA
ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGAT
TACAAGGATGACGACGATAAGGTTAAACGGCCGGC
```

Restriction Sites: SgfI-MluI



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**Plasmid Map:**


**ACCN:** NM\_001282650

**Insert Size:** 1221 bp

**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).

**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\\_001282650.1](#)

**RefSeq Size:** 2658 bp

**RefSeq ORF:** 1221 bp

**Locus ID:** 7355

**UniProt ID:** [P78381](#)

**Cytogenetics:** Xp11.23

**Protein Families:** Transmembrane

**MW:** 42.2 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<sub>m</sub> (CDG2M). Multiple alternatively spliced transcript variants encoding distinct isoforms have been found for this gene.

[provided by RefSeq, Oct 2014]

Transcript Variant: This variant (7) uses an alternate in-frame splice site in the 5' coding region and differs in the 3' exon structure, compared to variant 1. The encoded isoform (g) is longer and has a distinct C-terminus, compared to isoform a.