

## Product datasheet for **RG238124**

### SLC35A2 (NM\_001282651) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC35A2 (NM_001282651) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC35A2
Synonyms:	CDG2M; CDGX; UDP-Gal-Tr; UGALT; UGAT; UGT; UGT1; UGT2; UGTL
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG238124 representing NM_001282651. Blue=ORF Red=Cloning site Green=Tag(s)

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GCTCGTTTAGTGAACCGTCAGAATTTGTAAACGACTCACTATAGGGCGCCGGGAATTCGTCGACTG
GATCCGGTACCGAGGAGATCTGCCGCCCGCATCGCC
ATGGCAGCGGTTGGGGCTGGTGGTTCCACCGCGCGCCCGGGCCAGGGGCGGTTTCCGCGGGTGCATTG
GAGCCGGGACCGCCAGTGCAGGTTGCTTCTCACTTGGGAGGAAGCCGAGGCGCGTGGCCAGGGTTTG
CCTCAGCCATTACCTGACACCTCAGTAAGGATTCCAGCTCACAGGCGCCTGAAGTACATATCCCTAGCT
GTGCTGGTGGTCCAGAATGCCTCCCTCATCCTCAGCATCCGCTACGCCGCACGTTGCCAGGGGACCGC
TTCTTTGCCACCACTGCTGTGGTCATGGCGGAAGTCTCAAAGGTCTCACCTGCCTGCTGCTGCTCTTC
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TCTAACCTACCAGCTGCCACTTTCCAGGTGACATACCAGCTGAAGATCCTGACCACAGCGCTGTTCTCC
GTGCTCATGCTGAATCGCAGCCTTTCCCGGCTGCAGTGGGCTCCCTGCTGCTCCTTCACTGGCGTC
GCCATTGTCCAGGCACAGCAAGCCGGTGGGGGAGGCCACGGCCACTGGATCAGAACCCTGGGGCAGGC
CTGGCAGCCGTCGTGGCTCCTGTCTCTCCTCCGGCTTCGAGGTGTCTACTTTGAGAAGATCCTCAA
GGCAGCTCAGGCTCCGTGTGGCTGCGCAACCTGCAACTGGGCCTCTTCGGCACAGCACTGGGCTGGTG
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TGGGGCGTGGTCAACCAGGCCTTCGGCGGGCTACTGGTGGCTGTGGTGTCAAGTACGCTGACAAT
ATCCTCAAGGGCTTTGCCACCTCCCTGTCCATTGTGCTGTCCACTGTTGCCTCCATTGCGCTCTTTGGC
TTCCACGTGGACCAATTATTTGCCCTTGGCGCTGGACTCGTCATTGGTGTGCTACCTCTACAGCCTT
CCCCGAGGTGCAGCAAAGCCATAGCCTCTGCCTCTGCCTCCGCCTCCGGGCCCTGCGTTACCAGCAG
CCTCCCGGGCAGCCACCACCACCGCAGCTGTCTCCACCGTGGAGACCTCATCACGGAGCCCTTTCTG
CCAAGTCAGTGTGGTGAAG
ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAAAC
```



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**Protein Sequence:** >Peptide sequence encoded by RG238124  
 Blue=ORF Red=Cloning site Green=Tag(s)

MAAVGAGGSTAAPGPGAVSAGALEPGTASAELLLTWEAEARGQGLPQPLPDTSVRIPAHRRLKYISLA  
 VLVVQNASLILSIRYARTLPGDRFFATTAVVMAEVLKGLTCLLLLFAQKRGVVKHLVFLHEAVLVQYV  
 DTLKLAVPSLIYTLQNNLQYVAISNLPAAATFQVTYQLKILTTALFVLMNLSRLQWASLLLLFTGV  
 AIVQAQQAGGGPRPLDQNPAGLA AAVVASCLSSGFAGVYFEKILKSSGSVWLRNLQLGLFGTALGLV  
 GLWAAEGTAVATRGFFGYTPAVWGVVLNQAFGLLVAVVVKYADNILKGFATSLIVLSTVASIRLFG  
 FHVDPFLFALGALVIGAVYLYSLPRGAAKAIASASASASGPCVHQPPGQPPPPQLSSHRGDLITEPFL  
 PKSVLVK  
 TRTRPLEMESDESGLPAMEIECRITGTLNGVEFELVGGEGTPEQGRMTNKMSTKGALTFSPYLLSHV  
 MGYGFYHFGTYPSGYENPFLHAINNGGYNTRIEKYEDGGVLHVSFSYRYEAGRVIGDFKVMGTGFPED  
 SVIFTDKIIRSNATVEHLHPMGDNDLDGSFTRTFLRDGGYSSVVDSHMHFKSAIHPSILQNGGPMFA  
 FRRVEEDHSNTELGIVEYQHAFKTPDADAGEERV

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_001282651

**ORF Size:** 1263 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).

**RefSeq:** [NM\\_001282651.2](#)

RefSeq Size: 2703 bp

RefSeq ORF: 1266 bp

Locus ID: 7355

UniProt ID: [P78381](#)

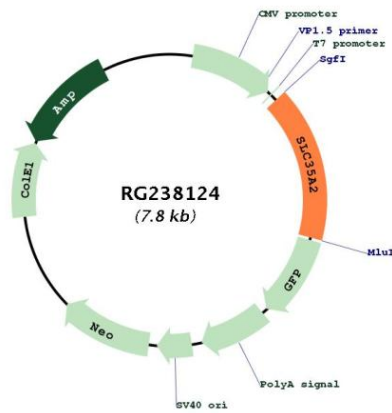
Cytogenetics: Xp11.23

Protein Families: Transmembrane

MW: 44.6 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]

**Product images:**



Circular map for RG238124