

Product datasheet for **RG229817**

SLC35A1 (NM_001168398) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC35A1 (NM_001168398) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC35A1
Synonyms:	CDG2F; CMPST; CST; hCST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>RG229817 representing NM_001168398 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTGCCCGAGAGACAATGTCACCTTATTATTCAAGTTATACTGCTTGGCAGTGATGACCCTGATGG
CTGCAGTCTATACCATAGCTTTAAGATACACAAGGACATCAGACAAGAAGCTACTTTTCAACCACAGC
CGTGTGTATCACAGAAGTTATAAAGTTATTGCTAAGTGTGGGAATTTAGCTAAAGAACTGGTAGTCTG
GGTAGATCAAAGCATCTTTAAGAGAAAATGTCTTGGGGAGCCCCAAGGAACTGTTGAAGTTAAGTGTGC
CATCGTTAGTGTATGCTGTTCAGAACAACATGGCTTTCCTAGCTCTTAGCAATCTGGATGCAGCAGTGTA
CCAGGTGACCTACCAGTTGAAGATTCCTGTACTGCTTTATGCACTGTTTTAATGTTAAACCGGACACTC
AGCAAATTACAGTGGGTTTCAGTTTTTATGCTGTGTGCTGGAGTTACGCTTGTACAGTGGAAACCGCCC
AAGCTACAAAAGTGGTGGTGAACAAAATCCATTATTAGGGTTTGGCGCTATAGCTATTGCTGTATTGTG
CTCAGGATTTGCAGTTCTTGCAAGTGTGGTGGCCTCTACACTTCTGTTGTGGTTAAGTACACAGACAAC
ATCATGAAAGGCTTTTCTGCAGCAGCGCCATTGTCTTTCCACCATTGCTTCAGTAATGCTGTTGGAT
TACAGATAACTCACCTTTGCCCTGGTACTCTTCTGTATGTGTTCCATATATCTCTATGGATTACC
CAGACAAGACTACATCCATCCAACAAGGAGAAAACAGCTTCAAAGGAGAGAGTTATTGGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >RG229817 representing NM_001168398
 Red=Cloning site Green=Tags(s)

MAAPRDNVTLFLKLYCLAVMTLMAAVYTIALRYTRTSDKELYFSTTAVCITEVIKLLLSVGILAKETGSL
 GRFKASLRENVLGSPKELLKLSVPSLVYAVQNNMAFLALSNLDAAVYQVTYQLKIPCTALCTVLMNRTL
 SKLQWVSVFMLCAGVTLVQWKPAQATKVVVEQNPLLGFGAIAI AVLCSGF AVLASVGGLYTSVVVKYTDN
 IMKGFSA AAAI V LSTIASVMLFGLQITLTFALGTLLVCVSIYLYGLPRQDTTSIQQGETASKERVIGV

TRTRPLE - GFP Tag - V

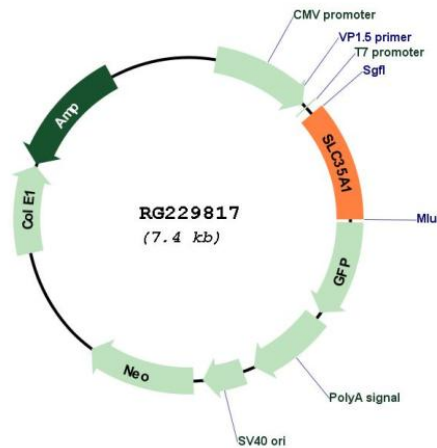
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN: NM_001168398

ORF Size: 834 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:	<ol style="list-style-type: none">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_001168398.1 , NP_001161870.1
RefSeq Size:	1741 bp
RefSeq ORF:	837 bp
Locus ID:	10559
UniProt ID:	P78382
Cytogenetics:	6q15
Protein Families:	Transmembrane
Gene Summary:	The protein encoded by this gene is found in the membrane of the Golgi apparatus, where it transports nucleotide sugars into the Golgi. One such nucleotide sugar is CMP-sialic acid, which is imported into the Golgi by the encoded protein and subsequently glycosylated. Defects in this gene are a cause of congenital disorder of glycosylation type 2F (CDG2F). Two transcript variants encoding different isoforms have been found for this gene.[provided by RefSeq, Dec 2009]