

## Product datasheet for **RC204670**

### SLC35A1 (NM\_006416) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC35A1 (NM_006416) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC35A1
Synonyms:	CDG2F; CMPST; CST; hCST
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC204670 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGGCTGCCCCGAGAGACAATGTCACCTTATTATTCAAGTTATACTGCTTGGCAGTGATGACCCTGATGG  
CTGCAGCTATACCATAGCTTTAAGATACACAAGGACATCAGACAAGAAGCTACTTTTCAACCACAGC  
CGTGTGTATCACAGAAGTTATAAAGTTATTGCTAAGTGTTGGGAATTTAGCTAAAGAACTGGTAGTCTG  
GGTAGATCAAAGCATCTTTAAGAGAAAATGTCTTGGGGAGCCCCAAGGAACTGTTGAAGTTAAGTGTGC  
CATCGTTAGTGTATGCTGTTCAGAACAACATGGCTTTCCTAGCTCTTAGCAATCTGGATGCAGCAGTGTA  
CCAGGTGACCTACCAGTTGAAGATTCGGTGTACTGCTTTATGCACTGTTTTAATGTTAAACCGGACACTC  
AGCAAATTACAGTGGGTTTCAGTTTTTATGCTGTGTGCTGGAGTTACGCTTGTACAGTGGAAACCGCCC  
AAGCTACAAAAGTGGTGGTGAACAATAATCCATTATTAGGGTTTGGCGCTATAGCTATTGCTGTATTGTG  
CTCAGGATTTGCAGGAGTATATTTGAAAAAGTTTAAAGAGTTCAGATACTTCTCTTTGGGTGAGAAAC  
ATTCAAATGTATCTATCAGGGATTATTGTGACATTAGCTGGCGTCTACTTGTGAGATGGAGCTGAAATTA  
AAGAAAAGGATTTTCTATGGTTACACATATTATGCTGGTTTGTGCATCTTTCTGCAAGTGTGGTGG  
CCTCTACACTTCTGTTGTGGTTAAGTACACAGACAACATCATGAAAGGCTTTTCTGCAGCAGCGGCCATT  
GTCCTTTCCACCATTTGCTTCAGTAATGCTGTTTGGATTACAGATAACACTCACCTTTGCCCTGGGTACTC  
TTCTTGATGTGTTTCCATATATCTCTATGGATTACCCAGACAAGACTACATCCATCCAACAAGGAGA  
AACAGCTTCAAAGGAGAGATTATTGGTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC204670 protein sequence  
Red=Cloning site Green=Tags(s)

MAAPRDNVTLFLKLYCLAVMTLMAAVYTIALRYTRTSDKELYFSTTAVCITEVIKLLL SVGILAKETGSL  
 GRFKASLRENVLGSPKELLKLSVPSLVYAVQNNMAFLALSNLDAAVYQVTYQLKIPCTALCTVLMNRTL  
 SKLQWVSVFMLCAGVTLVQWKPAQATKVVVEQNPLLGFGAIAIAVLCSGFAGVYFEKVLKSSDTSLVWRN  
 IQMYLSGIIVTLAGVYLSDGAEIKEKGFYGYTYVWFVIFLASVGGLYTSVVVKYTDNIMKGFSAAAAI  
 VLSTIASVMLFGLQITLTFALGTLLVCSYIYLYGLPRQDTTSIQQGETASKERVIGV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk6068\\_d08.zip](https://cdn.origene.com/chromatograms/mk6068_d08.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**



**ACCN:** NM\_006416

**ORF Size:** 1011 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\\_006416.5](#)

**RefSeq Size:** 1918 bp

**RefSeq ORF:** 1014 bp

**Locus ID:** 10559

**UniProt ID:** [P78382](#)

**Cytogenetics:** 6q15

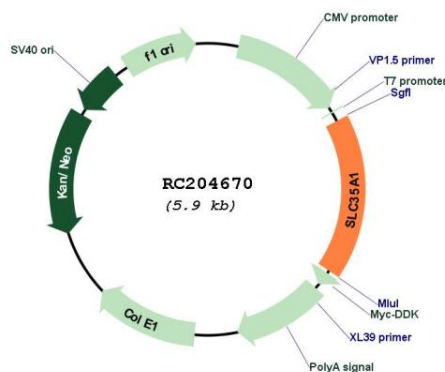
**Domains:** Nuc\_sug\_transp

**Protein Families:** Transmembrane

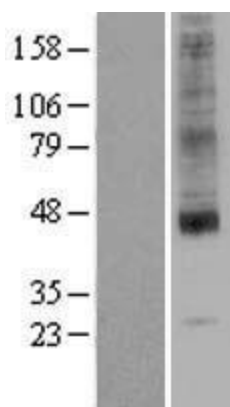
**MW:** 36.8 kDa

**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]

### Product images:



Circular map for RC204670



Western blot validation of overexpression lysate (Cat# [LY401931]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC204670 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).