

Product datasheet for **SC116104**

SLC35A1 (NM_006416) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC35A1 (NM_006416) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC35A1
Synonyms:	CDG2F; CMPST; CST; hCST
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>OriGene ORF within SC116104 sequence for NM_006416 edited (data generated by NextGen Sequencing)

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ATGGCTGCCCGAGAGACAATGTCACTTTATTATTCAAGTTATACTGCTTGGCAGTGATG
ACCCTGATGGCTGCAGTCTATACCATAGCTTTAAGATACACAAGGACATCAGACAAAGAA
CTCTACTTTTCAACCACAGCCGTGTGTATCACAGAAGTTATAAAGTTATTGCTAAGTGTG
GGAATTTTAGCTAAAGAACTGGTAGTCTGGGTAGATTCAAAGCATCTTTAAGAGAAAAT
GTCTTGGGGAGCCCCAAGGAAGTGAAGTTAAGTGTGCCATCGTTAGTGTATGCTGTT
CAGAACAACATGGCTTTCCTAGCTCTTAGCAATCTGGATGCAGCAGTGTACCAGGTGACC
TACCAGTTGAAGATTCGGTGTACTGCTTTATGCACTGTTTTAATGTTAAACCGGACTC
AGCAAATTACAGTGGTTCAGTTTTTATGCTGTGTGCTGGAGTTACGCTTGTACAGTGG
AAACCAGCCCAAGCTACAAAAGTGGTGGTGAACAAAATCCATTATTAGGGTTTGGCGCT
ATAGCTATTGCTGTATTGTGCTCAGGATTTGCAGGAGTATATTTTGAAAAAGTTTTAAAG
AGTTCAGATACTTCTCTTTGGGTGAGAAACATTCAAATGTATCTATCAGGGATTATTGTG
ACATTAGCTGGCGTCTACTTGTGATGGAGCTGAAATTAAGAAAAAGGATTTTCTAT
GGTTACACATATTATGTCTGGTTTGTCTCTTTTCAAGTGTGGTGGCCTCTACACT
TCTGTTGGTGAAGTACACAGACAACATCATGAAAGGCTTTTCTGCAGCAGCGGCCATT
GTCCTTCCACCATTGCTTCAGTAATGCTGTTTGGATTACAGATAACACTCACCTTTGCC
CTGGGTACTCTTCTGTATGTGTTTCCATATATCTCTATGGATTACCCAGACAAGACACT
ACATCCATCCAACAAGGAGAAACAGCTTCAAAGGAGAGAGTATTGGTGTGTGA

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Clone variation with respect to NM_006416.4



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_006416 unedited
 GGTTTCAGATTTGTAAACGACTCATATAGGGCGGCCGCAATTCGCACGAGGGTCGGGGAA
 CCTGGCTGCCCGAGNAAAAATGTCACCTTATTATTCAAGTTATACTGCTTGGCAGTGAT
 GACCCTGATGGCTGCAGTCTATACCATAGCTTTAAGATACACAAGGACATCAGACAAAGA
 ACTCTACTTTTCAACCACAGCCGTGTGTATCACAGAAGTTATAAAGTTATTGCTAAGTGT
 GGGATTTTAGCTAAAGAACTGGTAGTCTGGGTAGATTCAAAGCATCTTTAAGAGAAAA
 TGTCTTGGGAGCCCCAAGGAAGTGTGAAGTTAAGTGTGCCATCGTTAGTGTATGCTGT
 TCAGAACAACATGGCTTTCTAGCTCTTAGCAATCTGGATGCAGCAGTGTACCAGGTGAC
 CTACCAGTTGAAGATTCCGTGTACTGCTTTATGCACTGTTTTAATGTTAAACCGGACACT
 CAGCAAATTACAGTGGGTTTTCAGTTTTTATGCTGTGTGCTGGAGTTACGCTTGTACAGTG
 GAAACCAGCCCAAGCTACAAAAGTGGTGGTGGAAACAAAATCCATTATTAGGGTTTGGCGC
 TATAGCTATTGCTGTATTGTGCTCAGGATTTGCAGGAGTATATTTTAAAAAGTTTTAA
 GAGTTCAGATACTTCTTTGGGTGAGAAACATTCAAATGTATCTATCANGGATTATTGT
 GACATTAGCTGGCGTCTACTTGCAGATGGAGCTGANATTAAGAAAAAGGATTTTTCTA
 TGGTTACACATATTATGTCTGGGTTTGTACATCTTCTTGAAGTGTGGTGGCCTCTACA
 CTCTGTGTGGTTAAGTACACAGACNACATCATGAAAGGCTTTTCTGCAGCAGCGGCCA
 TTGGTCCTTTNCCACCATTGCNTTCAGTATGCTGTTTGGGATACAGANTACACTCACT

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_006416 unedited
 CCGCGGCCCAATCNAAGTCGAGTTTTTTTTTTTTTTTTTTTTCTTTCTTACAAATAAAGT
 TTATTGCTGAATTTCCCATTAACATTATAGAAAAACTGGAAATTTACAAATTATTG
 GAGAGCCCAACAGTTAAACATACTTTATTTAAAAAGTACAAAAGTACATTAGAAATTT
 TTTTGAAGAAATGTGTATCATCTAACAGAAAAGAAATATGAACCAGATAATGAATGGCAC
 AAATATAGCACTAAAGGGTACTCACTAAAGGGTACTCAGTCACCACCCAGAAATTGTC
 CGAGTTATGAAATAGATTCATTTGAGAAGTTACACAGTTTGTATGAACTAGCCTGTC
 TTGTTTCTGCCTCTTGTAAACAAAAGAGCTAGGTCTTTATGCTGCTAGGACAAAATACTGT
 ACATGAATTGGAGAATAAGGAGGGGCCATCCTTCTCCCGGTACCGGAACACGAGACCAG
 TTTTCGTGAGAAGTGGTTTTGGCCCTTAAACCTTAAGTATTGTCCCGAACCTTGGTCTGT
 GACATTCGGGTGCTTACGATGCAATTGTATCCCCCCCCCTTTTTGCTGCTCCGGCCCGC
 TATTTGTAGCGGTTTCGCGACATTCCATGTTCTTTGTGGGTGACCGCGCCCGTAACCCA
 TATCTATTTCCCTTTCCCATATTCCGAATCCCCCCCCCTTATCTCCCTCTTTCTTCAA
 TCCGCGACCCCGCTCCCTTTTCCCTTCTCGCCCCCGGTGGTCCCGCGCCCGCTGCC
 TACCCGTGCCCTCTTACACTCTTTTCTTTTCCCTTATCCCCCTTGTGCTTCTCT
 GCGCGTCGTTTCTTCCCTCCCTTCTTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT
 CTGCGTTATCTCTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCTTCCCT
 CCCTCCGCGC

Restriction Sites:

NotI-NotI

ACCN:

NM_006416

Insert Size:

1910 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:	<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:	<u>NM_006416.2</u> , <u>NP_006407.1</u>
RefSeq Size:	1883 bp
RefSeq ORF:	1014 bp
Locus ID:	10559
UniProt ID:	<u>P78382</u>
Cytogenetics:	6q15
Domains:	Nuc_sug_transp
Protein Families:	Transmembrane
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).</p>