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Product datasheet for RG204670

SLC35A1 (NM_006416) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC35A1 (NM_006416) 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:

>RG204670 representing NM_006416
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGGCTGCCCCGAGAGACAATGTCACTTTATTATTCAAGTTATACTGCTTGGCAGTGATGACCCTGATGG
CTGCAGTCTATACCATAGCTTTAAGATACACAAGGACATCAGACAAAGAACTCTACTTTTCAACCACAGC
CGTGTGTATCACAGAAGTTATAAAGTTATTGCTAAGTGTGGGAATTTTAGCTAAAGAAACTGGTAGTCTG
GGTAGATTCAAAGCATCTTTAAGAGAAAATGTCTTGGGGAGCCCCAAGGAACTGTTGAAGTTAAGTGTGC
CATCGTTAGTGTATGCTGTTCAGAACAACATGGCTTTCCTAGCTCTTAGCAATCTGGATGCAGCAGTGTA
CCAGGTGACCTACCAGTTGAAGATTCCGTGTACTGCTTTATGCACTGTTTTAATGTTAAACCGGACACTC
AGCAAATTACAGTGGGTTTCAGTTTTTATGCTGTGTGCTGGAGTTACGCTTGTACAGTGGAAACCAGCCC
AAGCTACAAAAGTGGTGGTGGAACAAAATCCATTATTAGGGTTTGGCGCTATAGCTATTGCTGTATTGTG
CTCAGGATTTGCAGGAGTATATTTTGAAAAAGTTTTAAAGAGTTCAGATACTTCTCTTTGGGTGAGAAAC
ATTCAAATGTATCTATCAGGGATTATTGTGACATTAGCTGGCGTCTACTTGTCAGATGGAGCTGAAATTA
AAGAAAAAGGATTTTTCTATGGTTACACATATTATGTCTGGTTTGTCATCTTTCTTGCAAGTGTTGGTGG
CCTCTACACTTCTGTTGTGGTTAAGTACACAGACAACATCATGAAAGGCTTTTCTGCAGCAGCGGCCATT
GTCCTTTCCACCATTGCTTCAGTAATGCTGTTTGGATTACAGATAACACTCACCTTTGCCCTGGGTACTC
TTCTTGTATGTGTTTCCATATATCTCTATGGATTACCCAGACAAGACACTACATCCATCCAACAAGGAGA
AACAGCTTCAAAGGAGAGAGTTATTGGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

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Protein Sequence:

>RG204670 representing NM_006416
Red=Cloning site Green=Tags(s)

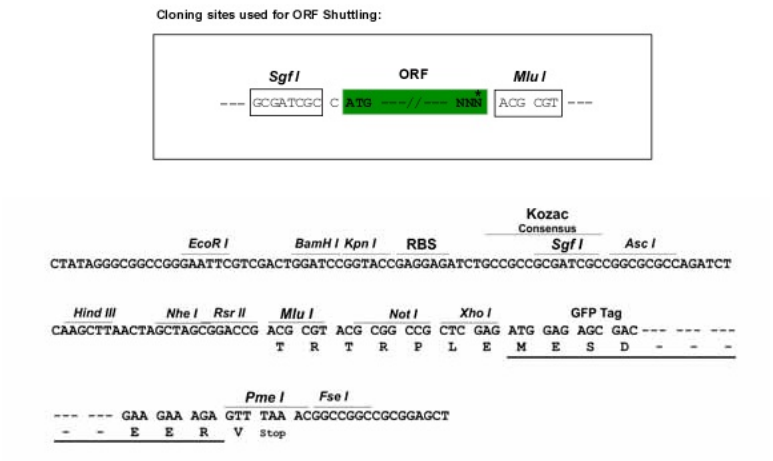
MAAPRDNVTLLFKLYCLAVMTLMAAVYTIALRYTRTSDKELYFSTTAVCITEVIKLLLSVGILAKETGSL
GRFKASLRENVLGSPKELLKLSVPSLVYAVQNNMAFLALSNLDAAVYQVTYQLKIPCTALCTVLMLNRTL
SKLQWVSVFMLCAGVTLVQWKPAQATKVVVEQNPLLGFGAIAIAVLCSGFAGVYFEKVLKSSDTSLWVRN
IQMYLSGIIVTLAGVYLSDGAEIKEKGFFYGYTYYVWFVIFLASVGGLYTSVVVKYTDNIMKGFSAAAAI
VLSTIASVMLFGLQITLTFALGTLLVCVSIYLYGLPRQDTTSIQQGETASKERVIGV

TRTRPLE - GFP Tag - V

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: 1883 bp

RefSeq ORF: 1014 bp

Locus ID: 10559

UniProt ID: P78382

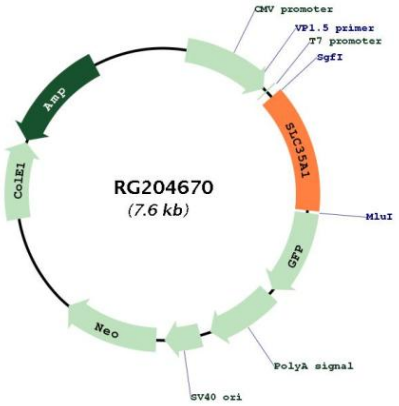
Cytogenetics: 6q15

Domains: Nuc_sug_transp

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]

Product images:



Circular map for RG204670