

Product datasheet for **MG204989**

Slc35a1 (NM_011895) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc35a1 (NM_011895) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc35a1
Synonyms:	AA408150; AI314851
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)
ORF Nucleotide Sequence:	>MG204989 representing NM_011895 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGCTCCGGCGAGAGAAAATGTCAGTTTATTCTTCAAGCTGTACTGCTTGGCGGTGATGACTCTGGTGG
CTGCCGTTACACCGTAGCTTTAAGATACACAAGGACAACAGCTGAAGAACTCTACTTCTCAACCACTGC
CGTGTGTATCACAGAAGTGATAAAGTTACTGATAAGTGTGGCCTGTTAGCTAAGGAACTGGCAGTTTG
GGTAGATTTAAAGCCTCATTAAAGTGAAAATGTCTTGGGGAGCCCCAAGGAACTGGCGAAGTTGAGTGTGC
CATCACTAGTGTATGCTGTGCAGAACAACATGGCCTTCTGGCTCTCAGTAATCTGGATGCAGCAGTGTA
CCAGGTGACCTATCAACTGAAGATCCCCTGCACCTGCTTTATGACTGTTTTAATGTTAAATCGAACACTC
AGCAAATTACAGTGGATTTCCGTCTTATGCTGTGTGGTGGGGTCACTCGTACAGTGGAAACCGCCC
AAGCTTAAAAGTCGTGGTAGCGCAGAATCCATTGTTAGGCTTTGGTGTATAGCTATTGCTGTATTGTG
CTCTGGATTTGCAGGAGTTATTTTGAAGAGCTTAAAGAGTCCGACACTTCCCTTTGGGTGAGAAAAC
ATTCAGATGTATCTGTCAGGGATCGTTGTGACGTTAGCTGGTACCTACTTGTGAGTGGAGCTGAAATTC
AAGAAAAGGATCTTCTATGGCTACACGATTTATGTCTGGTTTGTATCTTCTTGCTAGTGTGGGAGG
CCTCTACACGTCAGTGGTGGTGAAGTATACAGACAACATCATGAAAGGCTTCTCTGCTGCCGAGCCATT
GTTCTTTTACCATTGCTTCAGTCTACTGTTTGGATTACAGATAACACTTTTCATTGCTGGGAGCTC
TTCTTGTGTGTTTCCATATATCTCTATGGGTTACCCAGACAAGATACTACATCCATTCAACAAGAAGC
AACTTCAAAGAGAGAATCATTGGTGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG204989 representing NM_011895
 Red=Cloning site Green=Tags(s)

MAPARENVSLFFKLYCLAVMTLVAAAYTVALRYTRTTAEELYFSTTAVCITEVIKLLISVGLLAKETGSL
 GRFKASLSENVLGSPKELAKLSVPSLVYAVQNNMAFLALSNLDAAVYQVTYQLKIPCTALCTVLMNRTL
 SKLQWISVFMLCGGVTLVQWKPAQASKVVVAQNPLLGFGAIAI AVLCSGFAGVYFEKVLKSSDTSLVWRN
 IQMYLSGIVVTLAGTYLSDGAEIQEKGFYGYTYVWFVIFLASVGGLYTSVVVKYTDNIMKGFSAAAA
 VLSTIASVLLFGLQITLSFALGALLVCVSIYLYGLPRQDTTSIQEATSKERIIGV

TRTRPLE - GFP Tag - V

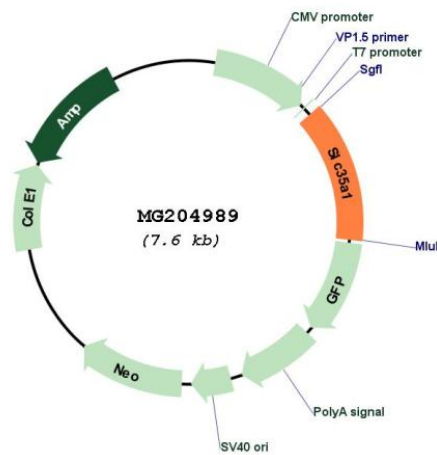
Restriction Sites: SgfI-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



Plasmid Map:



ACCN: NM_011895

ORF Size: 1008 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_011895.2 , NP_036025.1
RefSeq Size:	1977 bp
RefSeq ORF:	1011 bp
Locus ID:	24060
UniProt ID:	Q61420
Cytogenetics:	4 A5
Gene Summary:	Transports CMP-sialic acid from the cytosol into Golgi vesicles where glycosyltransferases function (PubMed:8755516, PubMed:10085119, PubMed:30985278). Efficient CMP-sialic acid uptake depends on the presence of free CMP inside the vesicles, suggesting the proteins functions as an antiporter (PubMed:30985278). Binds both CMP-sialic acid and free CMP, but has higher affinity for free CMP (PubMed:30985278).[UniProtKB/Swiss-Prot Function]