

Product datasheet for **MG221679**

Slc16a3 (NM_001038653) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc16a3 (NM_001038653) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc16a3
Synonyms:	Mct3; Mct4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG221679 representing NM_001038653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGGAGGGGCTGTGGTGGACGAGGGTCCACCGCATCAAGGCCCCCGATGGGGCTGGGGCTGGGCCG
 TCCTCTTTGGCTGTTTTATCATACGGGTTTCTCTACGCCTTCCCAAGGCGGTGAGCGCTTTTTCAA
 GGAGCTTATGCATGAGTTGGGATTGGCTACAGCGACACGGCTTGGATCTCCTCCATCCTGCTGGCTATG
 CTCTATGGCACAGGACCCTCTGCAGTGTGTGTGAACCGCTTTGGCTGCCGGCCTGCATGCTTGTGG
 GTGGCCTCTTTGCGTCCCTGGGAATGGTGGCTGCGTCTTCTGCAGAAGCATTATCCAGATCTACCTCAC
 CACGGGGTCACTACTGGCTTGGGTCTGGCTCTCAACTCCAGCCTTCCCTCATCATGCTCAATCGATAC
 TTCAACAAGCGTCGCCCTATTGCCAATGGGTGGCAGCGGCAGGCAGCCAGTGTTCCTTTGTGCACTGT
 CTCCTACTGGGGCAGCTGCTGCAGGATCACTATGGTTGGCGGGTGGCTTCTCATCTGGGGGGCTACT
 GCTCAACTGCTGTGTGTGTGCTGCGCTCATGAGCCGCTGGTGGCACCGCAGGTAGCGGGAGGGACTGAG
 CCCCAGCGACCCAGCGGCCACCTCAACGCCTGCTAGACCTGAGTGTCTCCGAGACCGCGCTTCTCA
 TCTATGCCGTGGCCGCTCAATCATGGTGTGGGACTCTTTGTGCTCCGGTCTTTGTGGTGGAGTATGC
 TAAGGATATGGGTGTACCCGACACAAAGGCCGCTTCTTCTCACCATCCTGGGCTTTCATCGACATCTTT
 GCCAGGCCACGGCTGGTTTCATAACAGGCCTCAAGAAGTGGCGCCCTACTCTGTCTACCTCTTCAGCT
 TTGCCATGTTCTTCAATGGCTTCACTGACCTGACAGGCTCCACAGCCACTGACTACGGTGGCCTGGTGGT
 CTTTTGCATCTTCTTGGCATCTCATATGGCATGGTGGCGCACTACAGTTTGGGTGCTCATGGCTATC
 GTGGGCACTCAGAAGTTCTCCAGTGCCATTGGTCTCGTCTGCTGCTGGAGGCCGTGGCTGTGCTCATCG
 GACCCCGTCAGGAGGCAAGCTGCTGGATGCAACCAAGTTTACAAGTATGTGTTATCTGGCGGGGGC
 CGAGGTGCTCACCTCCTCCTTGTGCTGCTGCTGGGCAACTTCTTCTGCATCGGGAAGAGGAAGAGGCC
 GAGGTGACAGAGCCTGAGGAGGTGGCCTCAGAGGAGAAGCTCCACAAGCCCTGTGGAGCTGGGAGTGG
 ACTCGAGGAGGTGGAGCACTTCTGAAGGCAGAGCCTGAGAAAATGGGGAGGTGGTTCATACCCCGGA
 AACGAGCGTG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG221679 representing NM_001038653
 Red=Cloning site Green=Tags(s)

MGGAVVDEGPTGIKAPDGGGWAVLFGCFIITGFSYAFPKAVSVFFKELMHEFGIGYSDTAWISSILLAM
 LYGTGPLCSVCVNRFGCRPVMLVGGLFASLGMVAASFCSIIQIYLTTGVITGLGLALNFQPSLIMLNRY
 FNKRRPIANGLAAGSPVFLCALSPGQLLQDHYGWRGGFLILGGLLLNCCVCAALMRPLVAPQVGGGTE
 PRGPQRPPQRLDLVFRDRGFLIYAVAASIMVLGLFVPPVFVVSYAKDMGVPDTKAAFLLTILGFIDIF
 ARPTAGFITGLKKVRPYSVYLFSAFFNGFTDLTGSTATDYGGLVVFICIFFGISYGMVGLALQFEVLMAI
 VGTQKFSSAIGLVLLLEAVAVLIGPPSGKLLDATKVYKYVIFILAGAEVLTSSLVLLLGNTFFCIGKRKRP
 EVTEPEEVASEEKLHKPPVDVGVDSREVEHFLKAEPEKNGEVVHTPETS

TRTRPLE - GFP Tag - V

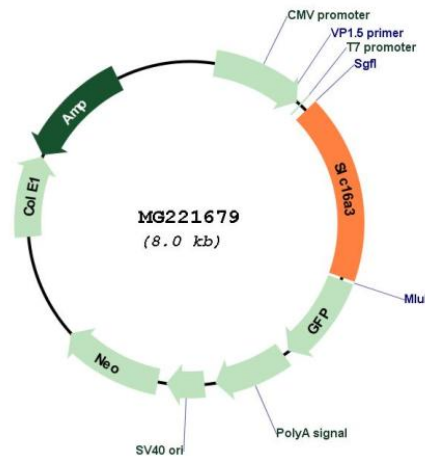
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001038653

ORF Size: 1410 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_001038653.1](#), [NP_001033742.1](#)

RefSeq Size: 2481 bp

RefSeq ORF: 1413 bp

Locus ID: 80879

UniProt ID: [P57787](#)

Cytogenetics: 11 E2

Gene Summary: Proton-linked monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, branched-chain oxo acids derived from leucine, valine and isoleucine, and the ketone bodies acetoacetate, beta-hydroxybutyrate and acetate (By similarity).[UniProtKB/Swiss-Prot Function]