

Product datasheet for **MR230070**

Slc16a3 (NM_001038654) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc16a3 (NM_001038654) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc16a3
Synonyms:	Mct3; Mct4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR230070 representing NM_001038654
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGGGGCTGTGGTGGACGAGGGTCCACCGCATCAAGGCCCCGATGGGGCTGGGGCTGGGCCG
 TCCTTTTGGCTGTTTTATCATACGGTTTCTCTACGCCTTCCCAAGGCGGTGAGCGCTTTTTCAA
 GGAGCTTATGCATGAGTTGGGATTGGCTACAGCGACACGGCTTGGATCTCCTCCATCCTGCTGGCTATG
 CTCTATGGCACAGGACCGCTCTGCAGTGTGTGTGAACCGCTTTGGCTGCCGGCCTGCATGCTTGTGG
 GTGGCCTCTTTGCGTCCCTGGGAATGGTGGCTGCGTCTTCTGCAGAAGCATTATCCAGATCTACCTCAC
 CACGGGGTCACTACTGGCTTGGTCTGGCTCTCAACTCCAGCCTTCCCTCATCATGCTCAATCGATAC
 TTCAACAAGCGTCGCCCTATTGCCAATGGGTGGCAGCGGCAGGCAGCCAGTGTTCCTTTGTGCACTGT
 CTCCTAGGGGCGAGTGTGCAGGATCACTATGGTTGGCGGGTGGCTTCTCATCTGGGGGCTACT
 GCTCAACTGCTGTGTGTGTGCTGCGCTCATGAGCCGCTGGTGGCACCGCAGGTAGCGGAGGGACTGAG
 CCCCGCGACCCAGCGGCCACCTCAACGCCTGTAGACCTGAGTGTCTCCGAGACCGCGCTTCTCTCA
 TCTATGCCGTGGCCGCTCAATCATGGTGTGGGACTCTTTGTGCTCCGGTCTTTGTGGTGAGCTATGC
 TAAGGATATGGGTGTACCCGACACAAAGGCCGCTTCTTCTCACCATCCTGGGCTTATCGACATCTTT
 GCCAGGCCACGGCTGGTTTCATAACAGGCCTCAAGAAGTGCGGCCCTACTCTGTCTACCTCTTCAGCT
 TTGCCATGTTCTTCAATGGCTTCACTGACCTGACAGGCTCCACAGCCACTGACTACGGTGGCCTGGTGGT
 CTTTTGCATCTTCTTGGCATCTCATATGGCATGGTGGCGCACTACAGTTTGGGTGCTCATGGCTATC
 GTGGGCACTCAGAAGTTCTCCAGTGCCATTGGTCTCGTCTGCTGCTGGAGGCCGTGGCTGTGCTCATCG
 GACCCCGTCAGGAGGCAAGCTGCTGGATGCAACCAAGTTTACAAGTATGTGTTATCCTGGCGGGGC
 CGAGGTGCTCACCTCCTCCTTGTGCTGCTGCTGGCAACTTCTTCTGCATCGGGAAGAGGAAGAGGCC
 GAGGTGACAGAGCCTGAGGAGGTGGCCTCAGAGGAGAAGCTCCACAAGCCCTGTGGACGTGGGAGTGG
 ACTCGAGGAGGTGGAGCACTTCTGAAGGCAGAGCCTGAGAAAATGGGGAGGTGGTTCATACCCCGGA
 AACGAGCGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR230070 representing NM_001038654
 Red=Cloning site Green=Tags(s)

MGGAVVDEGPTGIKAPDGGWGWAVLFGCFIITGFSYAFPKAVSVFFKELMHEFGIGYSDTAWISSILLAM
 LYGTGPLCSVCVNRFGCRPVMLVGGLFASLGMVAASFCSIIQIYLTTGVITGLGLALNFQPSLIMLNRY
 FNKRRPIANGLAAGSPVFLCALSPGQLLQDHYGWRGGFLILGLLLNCCVCAALMRPLVAPQVGGGTE
 PRGPQRPPQRLDLSVFRDRGFLIYAVAASIMVLGLFVPPVFVVSYAKDMGVPDTKAAFLTLILGFIDIF
 ARPTAGFITGLKKVRPYSVYLF SFAMFFNGFTDLTGSTATDYGGLVVF CIFFGISYGMV GALQFEVLM AI
 VGTQKFSSAIGLVLLLEAVAVLIGPPSGKLLDATKVYKYVVFILAGAEVLTSSLVLLLNFFCIGKRKRP
 EVTEPEEVASEEKLHKPPVDVGVDSREVEHFLKAEPEKNGEVVHTPETS

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

ACCN: NM_001038654

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_001038654.1](#), [NP_001033743.1](#)

RefSeq Size: 2386 bp

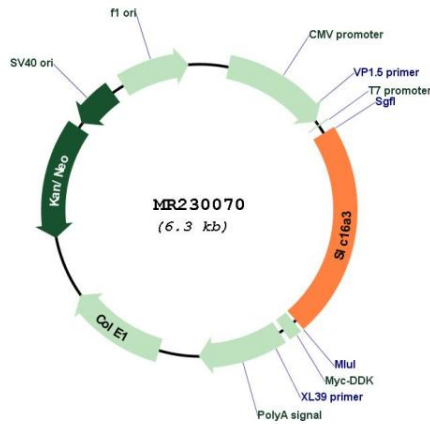
RefSeq ORF: 1413 bp

Locus ID: 80879

UniProt ID: [P57787](#)

Cytogenetics: 11 E2
MW: 50.4 kDa
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]

Product images:



Circular map for MR230070