

## Product datasheet for **RC234180**

### SLC16A3 (NM\_001206950) Human Tagged ORF Clone

#### Product data:

|                           |   |
|---------------------------|---|
| Product Type:             | Expression Plasmids                           |
| Product Name:             | SLC16A3 (NM_001206950) Human Tagged ORF Clone |
| Tag:                      | Myc-DDK                                       |
| Symbol:                   | SLC16A3                                       |
| Synonyms:                 | MCT-3; MCT-4; MCT 3; MCT3; MCT 4; MCT4        |
| Mammalian Cell Selection: | Neomycin                                      |
| Vector:                   | pCMV6-Entry (PS100001)                        |
| E. coli Selection:        | Kanamycin (25 ug/mL)                          |



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**ORF Nucleotide Sequence:**

>RC234180 representing NM\_001206950  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGGGAGGGGCCGTGGTGGACGAGGGCCCCACAGCGCTCAAGGCCCTGACGGCGCTGGGGCTGGGCCG  
 TGCTCTTCGGCTGTTTCGTCATCACTGGCTTCTCTACGCCTTCCCAAGGCCGTAGTGTCTTCTCAA  
 GGAGCTCATAACAGGATTTGGGATCGGCTACAGCGACACAGCCTGGATCTCTCCATCTCTGCGCCATG  
 CTCTACGGGACAGGTCCGCTCTGCACTGTGTGCGTGAACCGCTTTGGCTGCCGGCCCGTATGCTTGTGG  
 GGGGTCTCTTTCGCTCGCTGGGCATGGTGGCTGCGTCTTTTGGCGGAGCATCATCCAGGTCTACCTCAC  
 CACTGGGGTCACTACGGGTTGGGTTGGCACTCAACTCCAGCCCTCGCTCATCATGCTGAACCGCTAC  
 TTCAGCAAGCGGCCCATGGCAACGGGCTGGCGGCAGCAGGTAGCCCTGTCTTCTGTGTGCCCTGA  
 GCCCGCTGGGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGCGGCTTCTCATCTGGCGGCCCTGCT  
 GCTCAACTGCTGGTGTGTGCCGACTCATGAGCCCCCTGGTGGTACGCGCCAGCCGGGCTCGGGGCCG  
 CCGCGACCCTCCCGGCGCTGCTAGACCTGAGCGTCTTCCGGGACCGCGCTTTGTGCTTACGCCGTGG  
 CCGCTCGGTATGGTGTGGGGCTCTTCTGTCGCCCGCTGTTCTGTGGTGAAGTACGCCAAGGACCTGGG  
 CGTGCCCGACACCAAGGCCGCTTCTGCTCACCATCCTGGGCTTATTGACATCTTCGCGCGGCCGGCC  
 GCGGGCTTCGTGGCGGGCTTGGGAAGGTGCGGCCCTACTCCGTCTACCTCTTACGCTTCTCCATGTTCT  
 TCAACGGCCTCGCGGACCTGGCGGGCTCTACGGCGGGCGACTACGGCGGCTCGTGGTCTTCTGCATCTT  
 CTTTGGCATCTCTACGGCATGGTGGGGCCCTGCAGTTCGAGGTGCTCATGGCCATCGTGGGACCCAC  
 AAGTCTCCAGTGCCATTGGCTGGTGTGCTGATGGAGGCGGTGGCCGTGCTCGTGGGCCCCCTCGG  
 GAGGCAAACTCTGGATGCGACCCAGTCTACATGACGTGTTTCTCATCTGGCGGGGCGGAGGTGCTCAG  
 CTCTCCCTGATTTTGTGCTGGGCACTTCTTCTGCTTAGGAAGAAGCCCAAAGAGCCACAGCCTGAG  
 GTGGCGCGCGGAGGAGGAGAAGCTCCACAAGCCTCTGCAGACTCGGGGTGGACTTGCGGGAGGTGG  
 AGCATTTCTGAAGGCTGAGCCTGAGAAAAACGGGGAGGTGGTTCACACCCCGAAACAAGTGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC234180 representing NM\_001206950  
 Red=Cloning site Green=Tags(s)

MGGAVVDEGPTGVKAPDGGGWAVLFGCFVITGFSYAFPKAVSVFFKELIQEFGIGYSDTAWISSILLAM  
 LYGTGPLCSVCVNRFGCRPVMLVGGLFASLGMVAASFCSIIQVYLTGVTGLGLALNFQPSLIMLNRY  
 FSKRRPMANGLAAGSPVFLCALSPGQLLQDRYGWRGGFLILGGLLNCCVCAALMRPLVVTAQPGSGP  
 PRPSRRLDLVFRDRGFVLYAVAASVMVLGLFVPPVFVVSYAKDLGVPDTKAAFLILTILGFIDIFARPA  
 AGFVAGLGKVRPYSVYLFVSMFFNGLADLAGSTAGDYGLLVFCIFFGISYGMVGLQFEVLMIAIVGTH  
 KFSIAIGLVLLMEAVAVLVGPPSGKLLDATHVYMYVFLAGAEVLTSSLILLGNFFCIRKKPKPEPQE  
 VAAAEELKHKPPADSGVDLREVEHFLKAEPEKNGEVVHTPETS

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mg3945\\_d05.zip](https://cdn.origene.com/chromatograms/mg3945_d05.zip)

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_001206950

ORF Size: 1395 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\\_001206950.1](#), [NP\\_001193879.1](#)

RefSeq Size: 2102 bp

RefSeq ORF: 1398 bp

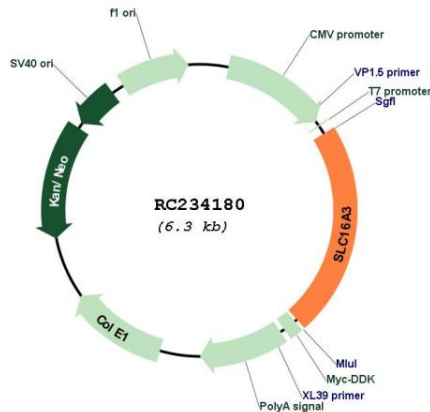
Locus ID: 9123

UniProt ID: [O15427](#)

Cytogenetics: 17q25.3

|                   |  |
|-------------------|--|
| Protein Families: | Transmembrane  |
| MW:               | 49.5 kDa   |
| Gene Summary:     | Lactic acid and pyruvate transport across plasma membranes is catalyzed by members of the proton-linked monocarboxylate transporter (MCT) family, which has been designated solute carrier family-16. Each MCT appears to have slightly different substrate and inhibitor specificities and transport kinetics, which are related to the metabolic requirements of the tissues in which it is found. The MCTs, which include MCT1 (SLC16A1; MIM 600682) and MCT2 (SLC16A7; MIM 603654), are characterized by 12 predicted transmembrane domains (Price et al., 1998 [PubMed 9425115]).[supplied by OMIM, Mar 2008] |

### Product images:



Circular map for RC234180