

Product datasheet for **RC234181**

SLC16A3 (NM_001206951) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A3 (NM_001206951) 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:

>RC234181 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

RCATGGGAGGGCCGTGGTGGACGAGGGCCCCACAGGCGTCAAGGCCCTGACGGCGGCTGGGGCTGGGC
 CGTGCTCTTCGGCTGTTTCGTCATCACTGGCTTCTCTACGCCTTCCCAAGGCCGTCAAGTCTTCTTC
 AAGGAGCTCATACAGGAGTTTGGGATCGGCTACAGCGACACAGCCTGGATCTCTCCATCCTGCTGGCCA
 TGCTCTACGGGACAGTCCGCTCTGCAGTGTGTGCGTGAACCGCTTTGGTGCCTGGCCCGTCACTGCTGT
 GGGGGTCTCTTTGCGTCGCTGGCATGGTGGCTGCGTCTTTTCCGGGAGCATCATCCAGGCTACCTC
 ACCACTGGGGTCACTACGGGGTTGGTTTGGCACTCAACTCCAGCCCTCGTCACTGCTGAACCGCT
 ACTTCAGCAAGCGGCCCCATGGCCAACGGGCTGGCGGACGAGGTAGCCCTGTCTTCTGTGTGCCCT
 GAGCCCGTGGGCGAGTGTGCAGGACCGCTACGGCTGGCGGGCGGCTTCTCATCTGGGCGGCTG
 CTGCTCAACTGCTGCGTGTGTGCGCACTCATGAGGCCCTGGTGGTACGGCCAGCCGGGCTCGGGC
 CGCCGCGACCCTCCCGGCGCTGTAGACTGAGCGTCTTCCGGGACCGGGCTTTGTGCTTACGCCGT
 GGCCGCTCGGTATGGTGTGGGGCTTCTCGTCCCGCCGTTCTGTGGTGAAGTACGCCAAGGACCTG
 GGCGTGCCCGACCAAGGCCGCTTCTGCTCACCATCTGGGCTTATTGACATCTTCGCGCGGCCGG
 CCGCGGGCTTCTGGCGGGGCTTGGGAAGTGCAGCCCTACTCCGCTACCTCTTCCAGCTTCTCCATGTT
 CTTCAACGGCCTCGCGGACCTGGCGGGCTACGGCGGGCGACTACGGCGGCTCGTGGTCTTCTGCATC
 TTTTGGCATCTCTACGGCATGGTGGGGCCCTGCAGTTCGAGGTGCTCATGGCCATCGTGGGACCC
 ACAAGTTCTCCAGTCCATTGGCTGGTGTGCTGATGGAGCGGTGGCCGTGCTCGTGGGCCCCCTTC
 GGGAGGCAAACTCTGGATGCGACCCACGTCTACATGTACGTGTTCACTCTGGCGGGGCGGAGGTCTC
 ACCTCTCCCTGATTTTGTGCTGGGCAACTTCTTCTGCATTAGGAAGAAGCCAAAGACCCACAGCCTG
 AGGTGGCGGCGCGGAGGAGGAGAAGCTCCACAAGCCTCCTGCAGACTCGGGGTGGACTTGCAGGAGT
 GGAGCATTTCTGAAGGCTGAGCCTGAGAAAAACGGGGAGGTGGTTCACACCCGGAAACAAGTGC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC234181 protein sequence
 Red=Cloning site Green=Tags(s)

XWEGPWWRAPQASRPLTAAGAGPCSSAVSSSLASPTSPRPSVSSSRSSYRSLGSATATQPGSPPCWP
 CSTGQVRSVCA*TALAAGPSCSLWGVSLRRWAWL RPFAGASSRSTSPLGSSRGVWHSTSSPRSSC*TA
 TSASGAPWPTGWRQVALSSCVP*ARWGSCCRTATAGGAASSWAACCSTAACVPHS*GPWWSRPSRARG
 RRDPPGAC*T*ASSGTAALCFTPWPPRSWCWSSSRPCSW*ATPRTWACPTPRPPSCSPSWASLTSSRGR
 PRASWRGLGRCGPTPSTSSASPCSTASRTWRALRRATTAASWSSASSLAPTAWWGPCSSRCSWPSWAP
 TSSPVPLAWCC*WRRWPCSSGPLREANSWMRPTSTCTCSSWRGPRCSPPP*FCCWATSSALGRSPKSHSL
 RWRPRRRSSSTLLQTRGWTCGRWSIS*RLSLRKTGRWF TPRKQV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg3945_d05.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:


ACCN: NM_001206951

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_001206951.1](#), [NP_001193880.1](#)

RefSeq Size: 2064 bp

RefSeq ORF: 1398 bp

Locus ID: 9123

UniProt ID: [O15427](#)

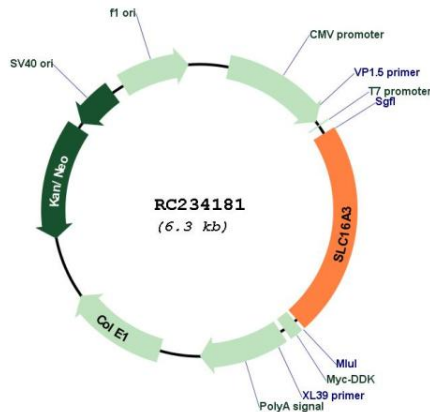
Cytogenetics: 17q25.3

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 RC234181