

Product datasheet for **RR213517**

Slc16a3 (NM_030834) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc16a3 (NM_030834) Rat 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)



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ORF Nucleotide Sequence:

>RR213517 representing NM_030834
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGGAGGAGCTGTGGTGGACGAGGGTCCCACCGCATCAAGGCCCCGATGGGGCTGGGGCTGGGCCG
 TCCTCTTTGGCTGTTTCATCATCACGGCTTCTCTATGCCTTCCCCAAAGCGGTGAGTGTTTTTTCAA
 GGAGCTCATGCATGAGTTGGGATTGGCTACAGCGACACAGCTTGGATCTCCTCCATCCTGCTGGCTATG
 CTGTATGGCACAGGCCACTCTGCAGTATGTGTGAACCGCTTTGGCTGCCGGCCCGTCATGCTTGTGG
 GTGGCCTCTTTGCGTCCCTGGGGATGGTGGCTGCATCCTTCTGCAGAAGCATTATCCAGATCTACCTCAC
 CACAGGGGTCACTACTGGCTTGGGTCTGGCTCTCAACTCCAGCCCTCCCTCATCATGCTCAATCGATAC
 TTCAACAAGCGCCGCCATGGCCAATGGGCTGGCAGCAGCAGGCAGTCCCGTGTCTTTGTGCACTGT
 CTCCTAGGGGACAGTGTGCAGGACACTATGGCTGGCGGGTGGCTTCTCTCATCTGGGAGGCCTGCT
 GCTCAACTGCTGCGTGTGTGCTGCACTCATGAGACCACTGGTAGCACCCAGCGAGTGGAGGGGCTGAG
 CCCATGGACCCAGCGCCGCTCCCGCCTGCTAGACCTGAGTGTCTCCGAGACCGTGGCTTCTCA
 TCTATGCTGTGGCTGCCTCAATCATGGTCTGGGGCTCTTTGTGCTCCGGTCTTTGTGGTGGAGTATGC
 TAAGGATATGGGTGTGCCTGACACAAAGGCTGCCTTCTTCTCACCATCCTGGGCTTTCATCGACATCTTT
 GCCAGGCCACCGCAGGTTTCAACAGGGCTCAAGAAGTGGCGCCCTACTCTGTCTACCTCTTCAGCT
 TTGCCATGTTCTTCAATGGCTTCACTGACCTGACAGGCTCCACGGCCAGTGACTACGGTGGCCTGGTGGT
 CTTTTGCATCTTCTTTGGGATCTCGTATGGCATGGTGGGAGCGCTACAGTTTGGGTGCTCATGGCTATC
 GTGGGCACTAAAAGTTCTCCAGTGCCATTGGTCTCGTCTGCTGTTAGAGGCTGTGGCTGTGCTCATCG
 GACCCCATCAGGAGGCAAGCTGCTGGACGCAACGAAAGTTTACAAGTATGTGTTATCCTGGCGGGGC
 TGAGGTGCTCACCTCCTCCTTGTGCTGCTGGGCAACTTCTTCTGCATCGGGAAGAGGAAGAGGCC
 GAGGTGACAAAGCCTGAGGAGTGGCCTCAGAGGAGGAGAAGCTCCACAAGCCCTGTGGACGTGAGGG
 TGGACTCGAGGGAGTGGAGCACTTCTGAAGGCAGAGCCTGAGAAAAACGGGGAGTGGTTCATACCC
 GAAACCAGCGTG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR213517 representing NM_030834
 Red=Cloning site Green=Tags(s)

MGGAVVDEGPTGIKAPDGGWGWAVLFGCFIITGFSYAFPKAVSVFFKELMHFEFGIGYSDTAWISSILLAM
 LYGTGPLCSMCVNRFGCRPVMLVGGLFASLGMVAASFCSIIQIYLTTGVITGLGLALNFQPSLIMLNRY
 FNKRRPMANGLAAGSPVFLCALSPGQLLQDHYGWRGGFLILGGLLLNCCVCAALMRPLVAPQASGGAE
 PHGPQRPSRLLDLSVFRDRGFLIYAVAASIMVLGLFVPPVFVVSYAKDMGVPDTKAAFLTLILGFIDIF
 ARPTAGFITGLKKVRPYSVYLF SFAMFFNGFTDLTGSTASDYGGLVVF CIFFGISYGMV GALQFEVLM AI
 VGTQKFSSAIGLVLLLEAVAVLIGPPSGKLLDATKVYKYVIFILAGA EVLTSSLVLLGNFFCIGKRKRP
 EVTKPEEVASEEEKLHKPPVDVRVDSREVEHFLKAEPEKNGEVVHTPETS V

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1848_e11.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_030834

ORF Size: 1413 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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](#)

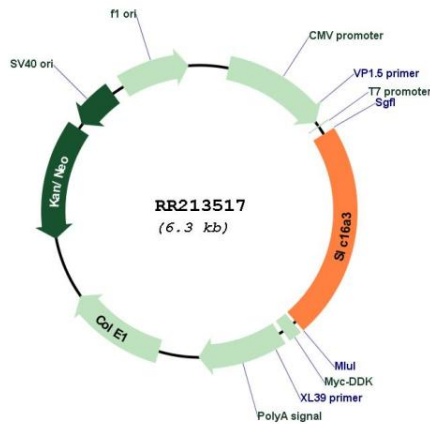
OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_030834.1](#), [NP_110461.1](#)
RefSeq Size: 2118 bp
RefSeq ORF: 1416 bp
Locus ID: 80878
UniProt ID: [O35910](#)
Cytogenetics: 10q32.3
MW: 51 kDa
Gene Summary: monocarboxylate transporter; mediates efflux of glycolytically derived lactic acid from white skeletal muscle [RGD, Feb 2006]

Product images:



Circular map for RR213517