

Product datasheet for **RG218243**

SLC16A3 (NM_001042423) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A3 (NM_001042423) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC16A3
Synonyms:	MCT-3; MCT-4; MCT 3; MCT3; MCT 4; MCT4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>RG218243 representing NM_001042423
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGAGGGCCGTGGTGGACGAGGGCCCCACAGCGCTCAAGGCCCTGACGGCGCTGGGGCTGGGCCG
 TGCTCTTCGGCTGTTTCGTCATCACTGGCTTCTCTACGCCTTCCCAAGGCCGTAGTGTCTTCTCAA
 GGAGCTCATAAGGATTTGGGATCGGCTACAGCGACACAGCCTGGATCTCTCCATCTCTGCGCCATG
 CTCTACGGGACAGGTCCGCTCTGCACTGTGTGCGTGAACCGCTTTGGCTGCCGGCCCGTATGCTTGTGG
 GGGGTCTCTTTCGCTCGCTGGGCATGGTGGCTGCGTCTTTTCCGGAGCATCATCCAGGTCTACCTCAC
 CACTGGGGTCACTACGGGTTGGGTTGGCACTCAACTCCAGCCCTCGCTCATCATGCTGAACCGCTAC
 TTCAGCAAGCGGCCCATGGCAACGGGCTGGCGGCAGCAGGTAGCCCTGTCTTCTGTGTGCCCTGA
 GCCCGTGGGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGCGGCTTCTCATCTGGCGGCCCTGCT
 GCTCAACTGCTGGTGTGTGCCGACTCATGAGCCCCCTGGTGGTACGCGCCAGCCGGGCTCGGGGCCG
 CCGCGACCCTCCCGGCGCCTGCTAGACCTGAGCGTCTTCCGGGACCGCGCTTTGTGCTTACGCCGTGG
 CCGCTCGGTATGGTGTGGGGCTCTTCTGCCGCCGTGTTCGTGGTGGTACGCCAAGGACCTGGG
 CGTGCCCGACACCAAGGCCGCTTCTGCTCACCATCCTGGGCTTATTGACATCTTCGCGCGGCCGGCC
 GCGGGCTTCGTGGCGGGCTTGGGAAGGTGCGGCCCTACTCCGTCTACCTCTTACGCTTCTCCATGTTCT
 TCAACGGCCTCGCGGACCTGGCGGGCTCTACGGCGGGCGACTACGGCGGCTCGTGGTCTTCTGCATCTT
 CTTTGGCATCTCTACGGCATGGTGGGGCCCTGCAGTTCGAGGTGCTCATGGCCATCGTGGGACCCAC
 AAGTTCACAGTCCATTGGCTGGTGTGCTGATGGAGCGGTGGCCGTGCTCGTGGGCCCCCTTCGG
 GAGGCAAACTCCTGGATGCGACCCAGTACATGACGTGTTTCTCCTGGCGGGGCGGAGGTGCTCAC
 CTCTCCCTGATTTTGTGCTGGCAACTTCTTCTGCTTAGGAAGAAGCCCAAAGACCCACAGCCTGAG
 GTGGCGCGCGGAGGAGAGAAGCTCCACAAGCCTCCTGCAGACTCGGGGGTGGACTTGCGGGAGGTGG
 AGCATTTCTGAAGGCTGAGCCTGAGAAAAACGGGGAGGTGGTTCACACCCCGAAACAAGTGTC

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>RG218243 representing NM_001042423
 Red=Cloning site Green=Tags(s)

MGGA VVDEGPTGVKAPDGGWGWAVLFGCFVITGFSYAFPKAVSVFFKELIQEFGIGYSDTAWISSILLAM
 LYGTGPLCSVCVNRFGCRPVMLVGGLFASLGMVAASFCSIQVYLTGVTGLGLALNFQPSLIMLNRY
 FSKRRPMANGLAAGSPVFLCAL SPLGQLLQDRYGWRGGFLILGGLLNCCVCAALMRPLVVTAPGSGP
 PRPSRRLDL SVFRDRGFVLYAVAASVMVLGLFVPPVFVVSYAKDLGVPDTKAAFLITILGFIDIFARPA
 AGFVAGLGKVRPYSVYLF SFSMFFNGLADLAGSTAGDYGGLVVF CIFFGISYGMV GALQFEVLM AIVGTH
 KFSSAIGLVLLMEAVAVLVGPPSGKLLDATHVYMYVFI LAGAEVLTSSLILLGNFFCIRKKPKPEQPE
 VAAAEELKHKPPADSGVDLREVEHFLKAEPEKNGEVVHTPETS V

TRTRPLE – GFP Tag – V

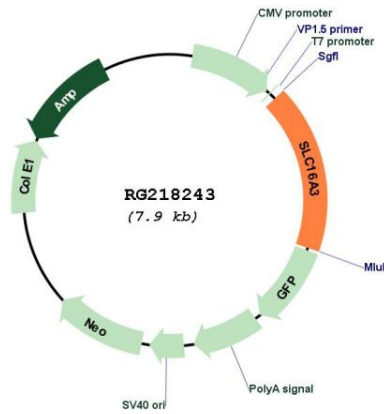
Restriction Sites:

SgfI-MluI

RefSeq Size: 2033 bp
 RefSeq ORF: 1398 bp
 Locus ID: 9123
 UniProt ID: [O15427](#)
 Cytogenetics: 17q25.3
 Protein Families: Transmembrane

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 RG218243