

Product datasheet for **SC331719**

SLC16A3 (NM_001206951) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC16A3 (NM_001206951) Human Untagged Clone
Tag: Tag Free
Symbol: SLC16A3
Synonyms: MCT-3; MCT-4; MCT 3; MCT3; MCT 4; MCT4
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC331719 representing NM_001206951.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGGAGGGGCCGTGGTGGACGAGGGCCCCACAGGCGTCAAGGCCCTGACGGCGGCTGGGGCTGGGCC
GTGCTCTTCGGCTGTTTCGTCATCACTGGCTTCTCCTACGCCCTCCCAAGGCCGTGAGTGTCTTCTTC
AAGGAGCTCACAGGAGTTTGGGATCGGCTACAGCGACACAGCCTGGATCTCCTCCATCCTGCTGGCC
ATGCTCTACGGGACAGGTCGGCTCTGCAGTGTGTGCGTGAACCGCTTTGGCTGCCGGCCCGTCATGCTT
GTGGGGGGTCTTTGCGTCGCTGGGCATGGTGGCTGCGTCTTTTGGCGGAGCATCATCCAGGTCTAC
CTCACCCTGGGGTTCATCAGGGGTTGGGTTTGGCACTCAACTCCAGCCCTCGCTCATCATGCTGAAC
CGCTACTTCAGCAAGCGGCGCCCATGGCCAACGGGCTGGCGGCAGCAGGTAGCCCTGTCTTCTGTGT
GCCCTGAGCCCGCTGGGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGGCGGCTTCTCATCTGGGC
GGCCTGCTGCTCAACTGCTGCGTGTGTGCCGACTCATGAGGCCCTGGTGGTACGGCCAGCCGGGC
TCGGGGCCCGCCGACCCCTCCCGGCGCCTGCTAGACCTGAGCGTCTTCCGGGACCCGGCTTTGTGCTT
TACGCCGTGGCCCGCTCGGTGATGGTGTGGGGCTCTTCGTCCCGCCCGTGTTCGTGGTGAAGTACGCC
AAGGACCTGGGCGTGCCGACACCAAGGCCCTTCTGCTCACCATCCTGGGCTTATTGACATCTTC
GCGCGCCCGCCCGGGCTTCGTGGCGGGCTTGGGAAGGTGCGGCCCTACTCCGTCTACCTCTTCAGC
TTCTCCATGTTCTTCAACGGCTCGCGGACTGGCGGGCTACGGCGGGCGACTACGGCGCCCTCGTG
GTCTTCTGCATCTTCTTTGGCATCTCTACGGCATGGTGGGGGCCCTGCAGTTCGAGGTGCTCATGGCC
ATCGTGGGCACCCACAAGTTCTCCAGTGCCATTGGCCTGGTGTGCTGATGGAGGCGGTGGCCGTGCTC
GTCGGGCCCTTTCGGGAGGCAACTCCTGGATGCGACCCACGTCTACATGTACGTGTTTCATCCTGGCG
GGGGCCGAGGTGCTCACCTCCTCCCTGATTTTGTGCTGGGCAACTTCTTCTGCATTAGGAAGAAGCCC
AAAGAGCCACAGCCTGAGGTGGCGGCCGCGGAGGAGGAGAAGCTCCACAAGCCTCCTGCAGACTCGGG
GTGGACTTGGCGGAGGTGGAGCATTTCCTGAAGGCTGAGCCTGAGAAAAACGGGGAGGTGGTTCACACC
CCGGAACAAGTGTCTGA
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Restriction Sites: SgfI-MluI
ACCN: NM_001206951
Insert Size: 1398 bp



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OTI Disclaimer:	Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).
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:	<ol style="list-style-type: none"> 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:	<u>NM_001206951.1</u>
RefSeq Size:	2064 bp
RefSeq ORF:	1398 bp
Locus ID:	9123
UniProt ID:	<u>O15427</u>
Cytogenetics:	17q25.3
Protein Families:	Transmembrane
MW:	49.5 kDa
Gene Summary:	<p>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]</p> <p>Transcript Variant: This variant (5) differs in the 5' UTR compared to variant 1. Variants 1, 2, 3, 4, 5 and 6 encode the same protein. Sequence Note: This RefSeq record was created from transcript and genomic sequence data to make the sequence consistent with the reference genome assembly. The genomic coordinates used for the transcript record were based on transcript alignments.</p>