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Product datasheet for SC117522

SLC16A3 (NM_004207) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A3 (NM_004207) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC16A3
Synonyms:	MCT-3; MCT-4; MCT 3; MCT3; MCT 4; MCT4
Mammalian Cell Selection:	None
Vector:	pCMV6-XL4
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004207, the custom clone sequence may differ by one or more nucleotides

ATGGGAGGGGCCGTGGTGGACGAGGGCCCCACAGGCGTCAAGGCCCCTGACGGCGGCTGGGGCTGGGCCG
TGCTCTTCGGCTGTTTCGTCATCACTGGCTTCTCCTACGCCTTCCCCAAGGCCGTCAGTGTCTTCTTCAA
GGAGCTCATACAGGAGTTTGGGATCGGCTACAGCGACACAGCCTGGATCTCCTCCATCCTGCTGGCCATG
CTCTACGGGACAGGTCCGCTCTGCAGTGTGTGCGTGAACCGCTTTGGCTGCCGGCCCGTCATGCTTGTGG
GGGGTCTCTTTGCGTCGCTGGGCATGGTGGCTGCGTCCTTTTGCCGGAGCATCATCCAGGTCTACCTCAC
CACTGGGGTCATCACGGGGTTGGGTTTGGCACTCAACTTCCAGCCCTCGCTCATCATGCTGAACCGCTAC
TTCAGCAAGCGGCGCCCCATGGCCAACGGGCTGGCGGCAGCAGGTAGCCCTGTCTTCCTGTGTGCCCTGA
GCCCGCTGGGGCAGCTGCTGCAGGACCGCTACGGCTGGCGGGGCGGCTTCCTCATCCTGGGCGGCCTGCT
GCTCAACTGCTGCGTGTGTGCCGCACTCATGAGGCCCCTGGTGGTCACGGCCCAGCCGGGCTCGGGGCCG
CCGCGACCCTCCCGGCGCCTGCTAGACCTGAGCGTCTTCCGGGACCGCGGCTTTGTGCTTTACGCCGTGG
CCGCCTCGGTCATGGTGCTGGGGCTCTTCGTCCCGCCCGTGTTCGTGGTGAGCTACGCCAAGGACCTGGG
CGTGCCCGACACCAAGGCCGCCTTCCTGCTCACCATCCTGGGCTTCATTGACATCTTCGCGCGGCCGGCC
GCGGGCTTCGTGGCGGGGCTTGGGAAGGTGCGGCCCTACTCCGTCTACCTCTTCAGCTTCTCCATGTTCT
TCAACGGCCTCGCGGACCTGGCGGGCTCTACGGCGGGCGACTACGGCGGCCTCGTGGTCTTCTGCATCTT
CTTTGGCATCTCCTACGGCATGGTGGGGGCCCTGCAGTTCGAGGTGCTCATGGCCATCGTGGGCACCCAC
AAGTTCTCCAGTGCCATTGGCCTGGTGCTGCTGATGGAGGCGGTGGCCGTGCTCGTCGGGCCCCCTTCGG
GAGGCAAACTCCTGGATGCGACCCACGTCTACATGTACGTGTTCATCCTGGCGGGGGCCGAGGTGCTCAC
CTCCTCCCTGATTTTGCTGCTGGGCAACTTCTTCTGCATTAGGAAGAAGCCCAAAGAGCCACAGCCTGAG
GTGGCGGCCGCGGAGGAGGAGAAGCTCCACAAGCCTCCTGCAGACTCGGGGGTGGACTTGCGGGAGGTGG
AGCATTTCCTGAAGGCTGAGCCTGAGAAAAACGGGGAGGTGGTTCACACCCCGGAAACAAGTGTCTGA

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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004207 unedited
ATTTGTATACGAACTCACTATAGGGCGGCCGCGAATCGGCACCAGGCGGGCTGAGGCGGC
CCAGCGGCGGCAGGTGAGGCGGAACCAACCCTCCTGGCCATGGGAGGGGCCGTGGTGGAC
GAGGGCCCCACAGGCGTCAAGGCCCCTGACGGCGGCTGGGGCTGGGCCGTGCTCTTCGGC
TGTTTCGTCATCACTGGCTTCTCCTACGCCTTCCCCAAGGCCGTCAGTGTCTTCTTCAAG
GAGCTCATACAGGAGTTTGGGATCGGCTACAGCGACACAGCCTGGATCTCCTCCATCCTG
CTGGCCATGCTCTACGGGACAGGTCCGCTCTGCAGTGTGTGCGTGAACCGCTTTGGCTGC
CGGCCCGTCATGCTTGTGGGGGGTCTCTTTGCGTCGCTGGGCATGGTGGCTGCGTCCTTT
TGCCGGAGCATCATCCAGGTCTACCTCACCACTGGGGTCATCACGGGGTTGGGTTTGGCA
CTCAACTTCCAGCCCTCGCTCATCATGCTGAACCGCTACTTCAGCAAGCGGCGCCCCATG
GCCAACGGGCTGGCGGCAGCAGGTAGCCCTGTCTTCCTGTGTGCCCTGAGCCCGCTGNGG
CAGCTGCTGCAGGACCGCTACGGCTGGCGGNGCGGCTTCCTCATCCTGGGCGGCCTGCTG
CTCAACTGCTGCGTGTGTGCCGCACTCATGAAGCCCCTGGTGGTCACGGGCCCAGCCGGC
TCGNGGCCGNCGCGACCCTCCCGCGCCTGCTAGACTGAGCGTCTTCCGGACCCGCGCTTT
GTGCTTTACGCCGTGGCCGNNCTCGTCATGGTGCTGGGGCTCTTCGTCCCGCCGTGTTCG
TGGTGAGCTACGCCAAGACCTGGNCGTGCCCGACACCAAGGCCGCTTCTGCTCACATNCT
GGGCTTCATTGACATCTCGCGCGGCCGCCGCGGCTTNNTGNNNNGGCTTGGGAAAGGNNG
CGCCCTACTCGNCTACCTCTTCAGCTCNCATGTNCTA

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004207 unedited
GGGCGGGGGGCCAACCCCCCCCTTTNNNNNANNTTACTTGNACCGCGCCGCAATCTANGA
TCGATTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTTCCTAACCTCCACCCACACGCAG
GTTTATTTCCATCTTCCAGGGGTGGAAAAGAGCTGTCCCCAAAACACTCAAAAGGGGGGG
GCACAGGCCCCATGTGACCCCAGGGTAGGACGGGCTGGAAAGGGCCCCACGCAGCACCTG
CCCTGCCAGCCTGTCTGCGGCCCACCCACCCTCCCATTAAAGTCACGTTGTCTCAAAGCA
TGGGTTTCCAGGTCCTTGAGCATAGCAGTGGCCGCAGGCCACCTGGGAGCAGCAGGCGGG
GCCCCTGGTGAGGATGCCTTGTAACCTTGCGGCTTGGCTTCACCGCAAATCCACTCTGGA
ATGACACGGTTCCCACCCCGCCACCTTCCCCCTAAAAACACTGATCGGGCGACAATCCGC
TGGGCCGGCAGCTGGAGCCCAGCCGTGGCCCTGCCTGAGCCAGTCCAGTTTGTAAAATAA
ATAGCAAGCGTTGCCGGCTTCTGTACCTCCTCCCTGTGCCTGCCGGCCCCGCCCAGCCAC
TCAGACACTTGTTTCCGGGGTGTGAACCACCTCCCCGTTTTTCTCAGGCTCAGCCTTCAG
GAAATGCTACACCTCCCGCAAGTCCACCCCCGAGTCTGCAGGAGGCCTGTGGAGCTTCTT
CTCCTCCGCGGCCGCCCCTCCAGCTGTGGCTTTTTGGGCTTCTTCCTAATGCAAAAAAGT
NGCCCACCANCAAAATCAGGAAAGAAGTGGAACCACTCCGCCCCCGCCAGAATGACCCGT
ACATGTACACGTGGGTCCCATCCAGAAGTTGCCCTCCCAAAGGGGGCCCCACGACACGGC
CACCGCCTCCTTAACAACACCCAGCCAATGCACCTGAAGAACTGTGG

Restriction Sites: NotI-NotI

ACCN: NM_004207

Insert Size: 2000 bp

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:	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_004207.1, NP_004198.1
RefSeq Size:	1982 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] Transcript Variant: This variant (3) 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.