

Product datasheet for **SC328820**

Monocarboxylic acid transporter 1 (SLC16A1) (NM_001166496) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Monocarboxylic acid transporter 1 (SLC16A1) (NM_001166496) Human Untagged Clone
Tag:	Tag Free
Symbol:	Monocarboxylic acid transporter 1
Synonyms:	HHF7; MCT; MCT1; MCT1D
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>SC328820 representing NM_001166496. Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGCCACCAGCAGTTGGAGGTCCAGTTGGATACACCCCCAGATGGAGGCTGGGCTGGCAGTGGTA
ATTGGAGCTTTCATTTCCATCGGCTTCTCTTATGCATTTCCCAAATCAATTAAGTCTTCTTCAAAGAG
ATTGAAGGTATATTCCATGCCACCACCAGCAAGTGCATGGATATCCTCCATAATGTTGGCTGTCATG
TATGGTGGAGGTCCTATCAGCAGTATCCTGGTGAATAAATATGGAAGTCGTATAGTCATGATTGTTGGT
GGCTGCTGTGAGGCTGTGGCTTATTGCAGCTTCTTTCTGTAACACCGTACAGCAACTATACGTCTGT
ATTGGAGTCATTGGAGGCTTGGGCTTGCCTTCAACTTGAATCCAGCTCTGACCATGATTGGCAAGTAT
TTCTACAAGAGGGCAGCATTGGCCAACGGACTGGCCATGGCAGGCAGCCCTGTGTTCTCTGTACTCTG
GCCCCCTCAATCAGGTTTTCTCGGTATCTTTGGATGGAGAGGAAGCTTCTAATCTTGGGGGCTTG
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GATAAGTCTAAAGCATCCCTTGAGAAAGCTGGAATAATCTGGTGTGAAAAAAGATCTGCATGATGCAAT
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GACTTAACCTATTACCCACAGAGGCTTTTTGCTATACCTCTCTGGAATGTGATCATGTTTTTGGG
CTCTTTGCACCTTTGGTGTCTTAGTAGTTATGGGAAGAGTTAGCATTATTCTAGTGAGAAGTCTGCC
TTCCTTCTTCCATTCTGGCTTTTGTGACATGGTAGCCCGACCATCTATGGGACTTGTAGCCAACACA
AAGCCAATAAGACCTCGAATTCAGTATTTCTTTGCGGCTTCCGTTGTTGCAAATGGAGTGTGTCATATG
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TGGCTCAGCTCCGTATTGTTTGAACATTGATGGACCTTGTGGACCCAGAGGTTCTCCAGCGCTGTG
GGATTGGTGACCATTGTGGAATGCTGCTCTGCTCTGCGGGCCACCCTTTAGGTCGGCTCAATGAC
ATGTATGGAGACTACAAATACACATACTGGGCATGTGGCGTCGTCTAATTATTTTCAGGTATCTATCTC
TTCATTGGCATGGGCATCAATATCGACTTTTGGCAAAGAACAGAAAGCAAACGAGCAGAAAAAGGAA
AGTAAAGAGGAAGAGACCAGTATAGATGTTGCTGGGAAGCCAAATGAAGTTACCAAAGCAGCAGAATCT
CCGGACCAGAAAGACACAGAAGGAGGGCCCAAGGAGGAGGAAAGTCCAGCTGA

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Restriction Sites: Sgfl-Mlul



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ACCN:	NM_001166496
Insert Size:	1503 bp
OTI Disclaimer:	<p>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.</p> <p>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</p>
OTI Annotation:	The ORF of this clone has been fully sequenced and found to be a perfect match to NM_001166496.1.
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.
Note:	Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.
RefSeq:	NM_001166496.1
RefSeq Size:	4390 bp
RefSeq ORF:	1503 bp
Locus ID:	6566
UniProt ID:	P53985
Cytogenetics:	1p13.2
Protein Families:	Transmembrane
MW:	53.9 kDa

Gene Summary:

The protein encoded by this gene is a proton-linked monocarboxylate transporter that catalyzes the movement of many monocarboxylates, such as lactate and pyruvate, across the plasma membrane. Mutations in this gene are associated with erythrocyte lactate transporter defect. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Oct 2009]

Transcript Variant: This variant (2) differs in the 5' UTR compared to variant 1. Variants 1 and 2 encode the same protein.