

Product datasheet for **SC117202**

SLC16A4 (NM_004696) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A4 (NM_004696) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC16A4
Synonyms:	MCT4; MCT5
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_004696, the custom clone sequence may differ by one or more nucleotides

ATGCTGAAGAGGGAGGGGAAGGTCCAACCTTACACTAAAACCTGGATGGAGGATGGGGATGGATGATTG
TGATTCATTTTTCTGGTGAATGTGTTGTGATGGGGATGACCAAGACTTTTGCAATTTCTTTGTGGT
CTTTCAAGAAGAGTTTGAAGGCACCTCAGAGCAAATTGGTTGGATTGGATCCATCATGTCATCTCTTCGT
TTTTGTGCAGGTCCCCTGGTTGCTATTATTTGTGACATACTTGGAGAGAAAACCTCCATTCTTGGGG
CTTTCTGTTGTTACTGGTGGATATCTGATCAGCAGCTGGGCCACAAGTATTCCTTTCTTTGTGTGACTAT
GGGACTTCTACCCGTTTGGTTCTGCTTTCTTATACCAAGTGGCTGCTGTGGTAACTACCAATACTTC
AAAAAACGATTGGCTCTTCTACAGCTATTGCCGTTCTGGGATGGGACTGACTTTTCTTTTGGCACCT
TTACAAAATTCCTGATAGATCTGTATGACTGGACAGGAGCCCTTATATTATTTGGAGCTATCGCATTGAA
TTTGGTGCCTTCTAGTATGCTCTTAAGACCCATCCATATCAAAAGTGAGAACAATTCTGGTATTAAGAT
AAAGGCAGCAGTTTGTCTGCACATGGTCCAGAGGCACATGCAACAGAAACACACTGCCATGAGACAGAAG
AGTCTACCATCAAGGACAGTACTACGCAGAAGGCTGGACTACCTAGCAAAAATTTAACAGTCTCACAAAA
TCAAAGTGAAGAGTTCTACAATGGGCCTAACAGGAACAGACTGTTATTAAGAGTGATGAAGAAAGTGAT
AAGGTTATTTCTGGAGCTGCAACAACCTGTTTGACATTTCTCTTTAGAAATCCTTTCTTCTACATAT
TTACTTGGTCTTTCTCCTCAGTCAGTTAGCATACTTCATCCCTACCTTTACCTGGTAGCCAGAGCCAA
AACACTGGGGATTGACATCATGGATGCCCTTACCTTGTCTGTAGCAGGTATCCTTGAGACGGTCAGT
CAGATTATTTCTGGATGGGTGCTGATCAAACTGGATTAAGAAGTATCATTACCACAAGTCTTACCTCA
TCCTCTGCGGCATCACTAACCTGCTTGCTCTTTAGCCACCACATTTCCACTACTTATGACCTACCCAT
CTGCTTTGCCATCTTGTGTTGGTTACCTGGCATTGATACTGCCTGTACTGGTTGATCTGTGTAGGAAT
TCTACAGTAAACAGGTTTTTGGGACTTGCCAGTTTCTTTGCTGGGATGGCTGTCCTTTCTGGACCACCTA
TAGCAGGCTGGTTATATGATTATACCCAGACATACAATGGCTCTTTCTACTTCTCTGGCATATGCTATCT
CCTCTCTCAGTTTCTTTTTTTTTGTACCATTGGCCGAAAGATGGAAAAACAGTCTGACCTGA



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5' Read Nucleotide Sequence:

>OriGene 5' read for NM_004696 unedited
 CAAATTTTGTATACGACTACTATAGCGGCCGCGAATTCGACGAGGAAAAAGATAACATT
 CCAGAAAACGGTGAATTTATTTTCTTCTTAATTGCCCCATCTGTGGAGGATTTCTTT
 GCTGAACACCACATCAAAGGGATCTTCTGCATTTAAAAATAGAAGGCATCATGCTGAAG
 AGGGAGGGGAAGGTCCAACCTTACACTAAAACCTGGATGGAGGATGGGGATGGATGATT
 GTGATTCATTTTTCTTGGTGAATGTGTTGTGATGGGGATGACCAAGACTTTTGCAATT
 TTCTTTGTGGTCTTTCAAGAAGAGTTTGAAGGCACCTCAGAGCAAATTTGGTTGGATTGGA
 TCCATCATGTCTCTTCGTTTTTGTGCAGGTCCCCTGGTTGCTATTATTTGTGACATA
 CTTGGAGAGAAAACTACCTCCATTCTTGGGGCTTTCGTTGTTACTGGTGGATATCTGATC
 AGCAGCTGGGCCACAAGTATTCCTTTCTTGTGTGACTATGGGACTTCTACCCGGTTTG
 GGTTCTGCTTTCTTATACCAAGTGGCTGCTGTGGTAACTACAAATACTTCAAAAAACGA
 TTGGCTCTTTCTACAGCTATTGCCCGTTCTGGGATGGGACTGACTTTTCTTTGGCACCC
 TTTACAAAATTCCTGATAGATCTGTATGACTGGACAGGAGCCCTTATATTATTTGGAGCT
 ATCGCATTGAATTTGGTGCCTTCTAGTATGCTCTTAAGACCCATCCATATCAAAAGTGAG
 AACAACTCTGGATTAAAGAAAAGGCAGCAGTTTGTCTGCACATGGTCCCAGAGCACATG
 NCACAGAACACACTGCCATGAGACAGAAGAGTCTACATCAGGNACAGTCTACGCAGAGGC
 TGGACTACTAGCAAAATTNACGTCTACANACAAAGNGAGATCTACATGGCCTACN

3' Read Nucleotide Sequence:

>OriGene 3' read for NM_004696 unedited
 ACTTTGGACCGCGGGCCGAATCTANGATCGAGTTTTTTTTTTTTTTTTTTTTTTTTTTT
 TTTTTATATACTTTTTATTATTTAGCAATACATGTTTATCATAGAAATTTAAGAACCTA
 AGTAATACAAAGAAAGTAAGGATTACCTTTAATTAACCACTAAGTAATACAAAGAAAGT
 AAGGATTACCTTTAATCAATAACAAAGATAAACTTTTGGAGGGAGCATATACCATTCCA
 GTCATAAGTAAGGTTTTAATACTCAAATTCCAAATTTCTGATCAATCAATGGCTATGTT
 TCACACTTTTTTAAATTAATAAATTTTCTATCTTTACATATTTTAGGGACTGAATTACCA
 TGGCGTAATTGAAAGTTTGGATTATTATGGTACATTCCGATTTCTATTTAATACATAAG
 GGACCTGATTAATAATTTAGCCTATTTGGTTAAATACTAACAATACAGGGTGCTATTACT
 CTTGGCTTACTACCAATTAACATTTCTCAAAATGCTAAAGCAAGAAGGAACCTTAAAAA
 CTTATCTGGCCGCGCCAGTGGCTCATGCCTGTAATCCCAGCACTTTGGAGGACAAGGCG
 GGCGGATCACGAGGTGAGGAGATGGAGACCATCCTGGCCAACATGGCGAAACCCCGCCTC
 CACTAAAAACAAAAATANCTGGGTGTGGTGGCGGTGTCCCTGTTATCCAGCTACCTG
 GGAGGCTGAGGCAGAGAATCCCTTGACCCAGAGGCGGAGATACAGTGAGCCGAGATGGCG
 CACTGACTTCAGCCTGGGCGAAAGACGAGACTNCGTCTCAAAAAAAAAAAAAAATTGNTT
 TCCTTCTATGTTCAATGGAGATGCNATGGGTTCTTTCAGCTTTGNTNCATGAAA

Restriction Sites:

NotI-NotI

ACCN:

NM_004696

Insert Size:

2550 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:	<u>NM_004696.1, NP_004687.1</u>
RefSeq Size:	2629 bp
RefSeq ORF:	1464 bp
Locus ID:	9122
UniProt ID:	<u>O15374</u>
Cytogenetics:	1p13.3
Protein Families:	Transmembrane
Gene Summary:	Proton-linked monocarboxylate transporter. Catalyzes the rapid transport across the plasma membrane of many monocarboxylates such as lactate, pyruvate, branched-chain oxo acids derived from leucine, valine and isoleucine, and the ketone bodies acetoacetate, beta-hydroxybutyrate and acetate (By similarity).[UniProtKB/Swiss-Prot Function] Transcript Variant: This variant (1) represents the longest transcript and it encodes the longest protein (isoform 1).