

Product datasheet for **SC323741**

SLC16A5 (NM_004695) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC16A5 (NM_004695) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC16A5
Synonyms:	MCT5; MCT6
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_004695.2
 GCGGTCCTCGTCGCGACCGGCCCGGGCCGAGGACGCCGCGCTCGGGGGAGCTGAGCCAC
 CTCTCCGCCAGGCCCGTGCAGCGGTACAAAGAAAAGAGCACTTCCCTGCTGGGGCAGAG
 GCCAAGCCAGAGCCCTGGCCCCATCACCTCTGCCCTGCTTGTAGTCTGGAATGGACCTC
 CCTGCCTGGAAGCTGCATTGCCCTTGGTCTGGCCTGCCTGCCCCCTGGGAACACAGG
 CAGCAGCCACATTGGCAGTGAAGCCGTGGCAGCGTCGGCAGCAGAGGATGCCCCAGGCC
 TGGAGCGTGCAGATGGCAGCTGGGCCTGGGTGGTGTGCTGGCCACCATTGGTGACCCAGG
 GCCTCACCTGGGCTTCCCCACGTGTATCGGCATCTTCTCACTGAACTGCAATGGGAGT
 TCCAGGCCAGCAACAGCGAGACCTCTTGGTTCCCTCCATCCTCACGGCTGTGCTCCACA
 TGGCAGGGCCCCTGTGCAGCATCCTGGTGGGACGCTTCGGCTGCCGAGTGACCGTGATGC
 TGGGGGGCGTGTGGCCAGCCTGGGCATGGTGGCCAGCTCCTTCTCACAACCTCAGCC
 AGCTCTACTTACAGCAGGATTCATCACAGGCCTGGGCATGTGCTTCCAGTTCCAGTCAA
 GCATCACGGTGTGGGCTTCTACTTTGTCGCGCGGGTGTGGCCAACGCGTGGCCT
 CGATGGGCGTCTCCCTGGGCATCACCTCTGGCCGCTGCTCTCCGCTACCTTCTGGAGA
 ACCTGGGCTGGAGGGTACCTTCTGTCTTGGCGGGATCTTTCTCACTGCTGCATCT
 GCGGGGCCATCATAAGGCCTGTGGCCACCAGTGTGGCCCCTGAGACCAAAGAATGTCCCC
 CGCCACCTCCCGAGACACCTGCACTTGGCTGCCTGGCTGCATGCGGCCGACCATCCAGC
 GCCACCTGGCCTTCGACATCCTGCGGCACAACACAGGCTACTGCGTGTACATACTGGGTG
 TGATGTGGTCCGTCTGGGCTTCCCACTGCCACAAGTCTTCTGGTGCCATATGCCATGT
 GGCACAGCGTGGACGAGCAGCAGGCAGCCCTCCTCATCTCCATCATCGGCTTCAGCAACA
 TCTTCTGAGGCCCTAGCCGGGCTGATGGCAGGACGGCCGGCCTTTGCTAGCCACCGCA
 AGTACCTGTTACGCTGGCACTCCTGCTCAATGGGCTACTAACCTGGTGTGTGCGGCAT
 CAGGTGACTTCTGGGTGCTCGTGGGCTACTGCTGGCGTACAGCGTGTCCATGAGTGGCA
 TCGGCGCCCTCATCTTCCAGGTTCTCATGGACATCGTCCCATGGATCAGTTCCCCAGAG
 CCCTGGGACTCTTCACTGTCTGGACGGCCTTGCTTCTCATCTCCCCACCACTGGCCG
 GGTTGCTCCTGGACGCCACCAACAACCTTGTAGCTATGTTTTCTACATGTCCAGCTTCTTCC
 TCATCTCAGTGCCCTTTCATGGGTGGCAGCTTCTACGCCCTGCAGAAGAAGGAGCAAG
 GCAAGCAGGCTGTGCGGGCGGATGCCCTGGAGCGGGATCTTTTCTTGAAGCCAAAGACG
 GTCCTGGGAAGCAACGGTCCCCTGAGATCATGTGCCAGTCTTCCCGCCAGCCACGTCAG
 CTGGCGTCAATAAGCATCTTTGGGGATGTCTGCCTCCTCCAGGACCAGCCATGAGTGGC
 TCTTATGGCCAAAGGCGTACTGCAGGCCAAGCAAACGGCTCTGGGCTGGAATAGCCCTA
 CCTGAGTGCCCTGTTTACTCCGCCACTATCTGCCATGTGAGTTGGGCAAATTGTTGACC
 ACCTCTGAGCCTTGAAAAAGTAGGAGGTTACTTTGTTAGAGCAAATAATAAAAATTAAT
 TTTAAAAA

Restriction Sites: ECoRI-NOT

ACCN: NM_004695

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).

OTI Annotation: This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

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_004695.2, NP_004686.1</u>
RefSeq Size:	1940 bp
RefSeq ORF:	1518 bp
Locus ID:	9121
UniProt ID:	<u>O15375</u>
Cytogenetics:	17q25.1
Protein Families:	Transmembrane
Gene Summary:	<p>This gene encodes a member of the monocarboxylate transporter family and the major facilitator superfamily. The encoded protein is localized to the cell membrane and acts as a proton-linked transporter of bumetanide. Transport by the encoded protein is inhibited by four loop diuretics, nateglinide, thiazides, probenecid, and glibenclamide. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2012]</p> <p>Transcript Variant: This variant (1) represents the shortest transcript. Variants 1, 2 and 3 encode the same protein.</p>