

## Product datasheet for **SC112840**

### SLC22A3 (NM\_021977) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A3 (NM_021977) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC22A3
Synonyms:	EMT; EMTH; OCT3
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL4</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene ORF sequence for NM\_021977 edited  
 ATGCCCTCCTTCGACGAGGCGCTGCAGCGGGTGGGCGAGTTGGGCGCTTCCAGAGGCGC  
 GTGTTTTTGTGCTGTGCCTGACGGGCGTACCTTCGCCTTCTTTCGTGCGCGTGGTC  
 TTCCTGGGCACGACGCCGACCACTACTGGTGCCGCGGGCCAAGTGCCGCGGCGCTGGCC  
 GAGCGCTGCGGCTGGAGCCCGGAGGAGGAGTGAACCGCACGCGCGCCCGCTCCCGCGGC  
 CCAGAGCCCCCGAGCGCCGCGGCGCTGCCAGCGCTACCTCTGGAGGCGGCAACGAC  
 AGCGCTCCGCCACTAGCGCTCTCAGCTGCGCGGACCACTCGCCGCTTCCCCAACCGC  
 TCGGCTCCCTTTGTGCCGTGCCGCGGCGCTGGCGCTACGCCAGGCCACTCCACCATC  
 GTCAGCGAGTTTGACCTTGTCTGTCAATGCGTGGATGCTGGACCTCACCCAAGCCATC  
 CTGAACCTCGGCTTCTGACTGGAGCATTACCTTAGGCTATGCAGCAGACAGGTATGGC  
 AGGATCGTCATTTACTTGTATCCTGCCTTGGTGTGGCGTCACTGGGGTTGTGGTGGCC  
 TTTGCACCAAACCTCCCTGTGTTTGTGATCTCCGCTTCTGCAAGGTGATTTGGAAAG  
 GGGACGTGGATGACTTGCTACGTGATTGTGACAGAAATAGTAGGTTCAAACAAAGGAGG  
 ATTTGGGAATCGTGATTCAAATGTTCTTTACCCTTGAATCATAATTCTCCCTGGAATT  
 GCCTACTTCATCCCCAACTGGCAAGGAATCCAGTTAGCCATCACGCTGCCAGCTTTCTC  
 TTCTCTCTTTATTACTGGGTGGTCCCTGAGTCTCCCCGTTGGCTGATTACTCGGAAGAAA  
 GGAGATAAAGCATTACAGATCCTGAGACGATTGCTAAGTGAATGGGAATACCTCTCA  
 TCAAATTAAGTACAGATCACTGTTACAGATGAGGAAGTTAGTAATCCATCCTTTTTAGAT  
 CTGGTGAGAACTCCCCAAATGAGGAAATGCACACTTATTTCTATGTTTGGTTGTTTCA  
 AGCGCAGTGGTGTATCAAGGACTTGTATGCGCCTGGGAATTATAGGGGGCAACCTCTAT  
 ATAGACTTTTTTCACTCGGGCGTGGTGGAACTGCCAGGAGCTCTTTGATCTTACTAACC  
 ATTGAGCGCTTGGACGACGCTCCCTTTGCAGCAAGCAATATAGTGGCAGGGTGGCA  
 TGCCCTTGTCACTGCGTTCTTACCAGAAGGAATAGCATGGTTGAGGACCACAGTGGCTACA  
 TTGGGAAGACTAGGGATAACCATGGCCTTTGAAATTGTTTATTTGGTAAATTCAGAATTG  
 TACCCAACAACATTACGAAATTTGCGAGTTTCGCTCTGTTCAAGTCTGTGTGATTTGGG  
 GGAATCATAGCCCCATTTCTGCTCTTTCGGCTAGCAGCCGTGTGGCTAGAACTACCTCTG  
 ATCATCTTTGGTATCCTGGCATCCATCTGTGGTGGCCTTGTGATGCTTTTGCCTGAAACC  
 AAGGGTATTGCCTTGCAGAGACAGTGGATGATGTAGAAAACTTGGCAGTCCACATTCC  
 TGTAATGTGGCAGGAATAAGAAAACCCAGTTTCCCGCTCTCACCTTTGA

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_021977 unedited  
 GGATTTTGGTATACGACTCACTATAGGGCGGCCCGCAATTCGCACCAGGCGGGCTGCGG  
 GCGGCGGGCGGCGGGCGCACCATGCCCTCCTTCGACGAGGCGCTGCAGCGGGTGGGCGAG  
 TTCGGGCGCTTCCAGAGGCGCGTGTTCCTGGGCACGACGCCGACCACTACTGGTGCCGCGG  
 TCCCTTTCGTGCGCGTGGTCTTCTGGGCACGACGCCGACCACTACTGGTGCCGCGG  
 CCAAGTGCCGCGGCGCTGGCCGAGCGCTGCGGCTGGAGCCCGGAGGAGGAGTGAACCGC  
 ACGGCGCCCGCTCCCGCGGCCAGAGCCCCGAGCGCCGCGGCGCTGCCAGCGCTAC  
 CTCTGGAGGCGGCCAACGACAGCGCTCCGCCACTAGCGCTCTCAGCTGCGCGGACCCA  
 CTCGCGCGCTTCCCAACCGCTCGGCTCCCTTGTGCCGTGCCGCGGCGGCTGGCGCTAC  
 GCCCAGGCCCACTCCACCATCGTCAGCGAGTTGACCTTGTCTGTGTCAATGCGTGGATG  
 CTGGACCTCACCAAGCCATCCTGAACCTCGGCTTCTGACTGGAGCATTACCTTAGGC  
 TATGCAGCAGACAGGTATGGCAGGATCGTCATTTACTTGTATCCTGCCTTGGTGTGGC  
 GTCAGTGGGGTTGTGGTGGCCTTGCACCAAACCTCCCTGTGTTTGTGATCTCCGCTTC  
 CTGNCAGGTGATTTGGAAAGGGGACGTGGATGACTTGTACGTATTGTGACAGAAATA  
 GTAGGTTCAAACAGGAGGATTGTGGGAATCGTGATTCAAATGTTCTTTACCCTTGAA  
 TCATATTCCTCCCTGGNAATGCCTACTNCATCCCCACTGGCAGGNAATNCAGTTAGCCATC  
 ACGCTGNCCAGCTTTCTTTCTCTTTATACCTGGNNGNCCCTGAGTCTNCCCGTTG  
 GCCTGATACTCCGAA

<b>3' Read Nucleotide Sequence:</b>	<p>&gt;OriGene 3' read for NM_021977 unedited            CCCCATTNTTGCACCGCGCCGATTCTAGACNCGGCTTTTTTTTTTTTTTTTTTACG            ATTTAAAATTTTAATTGTTACCAAAACAAAAATCCACTCAAATACAATTCAACAATGCA            ACAGTCATCTTACAGCAGAGAAATGCATGAGAAAAGCAAACGCAAGTGACTGTGAATA            AAGGGTGAATGTAGTCTCAAATCCTCAAAGAGTTGTGTTATTTTCATCGACAAATAGATT            ATTCGTATTCAATTCTGATGTGTTTTAAAGACTAAGATGCTCATTTTACGATTAGCGCAC            ATGTGTATATTGTCACCTGTTCTCCTTAGAAAAATGCTCTTCCTCATGGTTAATGTTTCC            CTTTGGTACCAATTTTGCCTGTTTGCATAAAGTATTTTCATTTTTAAAACTCAGCATAAAA            TATAGACTGCATCTGAAAAGATATTGAATATAACATATAAAGCAGAACACACAAGTTCCA            CATTTCAAAAGCCTCGATAACAAAAAAGAAAGATCAAATCCCTTATTAGTCTCTGTAA            GTCATTTATAAGCTCCTGCTGATCCTGTTAAGCATGGATATAATTGATCTTTCTTTAA            ATTAATAATGTAAGCTTTTCCCAAGACATGTCAAAGTGCTAAGAATGAATAGGAATTGTC            CATGTTTTTCGCTTTTGACCACGGGCACCATCGGAAGTGAACACAAAATATAAGAAAA            TATCCCTTCACTTTTAAAATCCTAAGACCCAGAAATCAGAATCCATGGGATTTGTTTAGT            ACAGCCAGGAATCTGTGGCTCTAGGTGTTCACTACAGGAGATCAAAAATGTCCCAATAA            TCTCAGCACCACAGCATATTTTGTAAATACAGAGCCAATCCTCAGATGTCCGCAGCATG            GCCTAATGCTGGCACC</p>
<b>Restriction Sites:</b>	NotI-NotI
<b>ACCN:</b>	NM_021977
<b>Insert Size:</b>	3340 bp
<b>OTI Disclaimer:</b>	<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 <a href="mailto:custsupport@origene.com">custsupport@origene.com</a> 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. <a href="#">More info</a></p>
<b>OTI Annotation:</b>	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.
<b>Components:</b>	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\\_021977.2](#), [NP\\_068812.1](#)

**RefSeq Size:** 5624 bp

**RefSeq ORF:** 1671 bp

**Locus ID:** 6581

**UniProt ID:** [O75751](#)

**Cytogenetics:** 6q25.3

**Domains:** sugar\_tr

**Protein Families:** Transmembrane

**Gene Summary:** Polyspecific organic cation transporters in the liver, kidney, intestine, and other organs are critical for elimination of many endogenous small organic cations as well as a wide array of drugs and environmental toxins. This gene is one of three similar cation transporter genes located in a cluster on chromosome 6. The encoded protein contains twelve putative transmembrane domains and is a plasma integral membrane protein. [provided by RefSeq, Jul 2008]