

## Product datasheet for **SC128179**

### SLC22A1 (NM\_153187) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A1 (NM_153187) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC22A1
Synonyms:	HOCT1; OCT1; oct1_cds
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)
Fully Sequenced ORF:	>NCBI ORF sequence for NM_153187, the custom clone sequence may differ by one or more nucleotides

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ATGCCACCGTGGATGACATTCTGGAGCAGGTTGGGGAGTCTGGCTGGTCCAGAAGCAAGCCTTCTCTCA
TCTTATGCCTGTGTCGGCTGCCTTTGCGCCCATCTGTGTGGGCATCGTCTTCTGGGTTTCACACCTGA
CCACCACTGCCAGAGTCTGGGGTGGCTGAGCTGAGCCAGCGCTGTGGCTGGAGCCCTGCGGAGGAGCTG
AACTATACAGTGCCAGGCTGGGGCCCGGGCGAGGCCCTTCTTGGCCAGTGCAGGCGCTATGAAGTGG
ACTGGAACAGAGCGCCCTCAGCTGTGTAGACCCCTGGCTAGCCTGGCCACCAACAGGAGCCACCTGCC
GCTGGGTCCCTGCCAGGATGGCTGGGTGTATGACACGCCCGGCTCTCCATCGTCACTGAGTTCAACCTG
GTGTGTGCTGACTCCTGGAAGCTGGACCTTTTTCAGTCTGTTTGAATGCGGGCTTCTTGTTTGGCTCTC
TCGGTGTGGCTACTTTGCAGACAGGTTTGGCCGTAAGCTGTGTCTCCTGGGAAGTGTGCTGGTCAACGC
GGTGTGCGGGCTGCTCATGGCCTTCTCGCCAACTACATGTCCATGCTGCTCTTCCGCTGCTGCAGGGC
CTGGTCAGCAAGGGCAACTGGATGGCTGGCTACACCCTAATCACAGAATTTGTTGGCTCGGGCTCCAGAA
GAACGGTGGCGATCATGTACCAGATGGCCTTACGGTGGGGCTGGTGGCGCTTACCGGGCTGGCCTACGC
CCTGCCTCACTGGCGCTGGCTGCAGCTGGCAGTCTCCCTGCCACCTTCTTCTTCTGCTACTACTG
TGTGTGCCGAGTCCCTCGGTGGCTGTATCACAAAAAGAAACTGAAGCAATAAAGATAATGGACC
ACATCGCTCAAAAGATGGGAAGTTGCCTCCTGCTGATTTAAAGATGCTTCCCTCGAAGAGGATGTCAC
CGAAAAGCTGAGCCCTTCAATTTGCAGACTGTTCCGACGCCCGCTGAGGAAGCGCACCTTTCATCCTG
ATGTACCTGTGGTTCACGGACTCTGTGCTCTATCAGGGGCTCATCCTGCACATGGGCGCCACCAGCGGGA
ACCTCTACCTGGATTTCTTTACTCCGCTCTGGTTCGAAATCCCGGGGGCCTTCATAGCCCTCATCCAT
TGACCGGTGGGCGCATCTACCCATGGCCATGTCAAATTTGTTGGCGGGGCGAGCCTGCCTCGTCATG
ATTTTTATCTCACCTGACCTGCACTGGTTAAACATCATAATCATGTGTGTTGGCCGAATGGGAATCACCA
TTGCAATACAAATGATCTGCCTGGTGAATGCTGAGCTGTACCCACATTCGTGAGCGGTGTTGGGCTGC
TTGCCGCGGAGTGACGCTACTTCTCCAGAGACCAAGGGGTCGCTTTGCCAGAGACCATGAAGGACGC
CGAGAACCTTGGGAGAAAAGCAAAGCCCAAGAAAACACGATTTACCTTAA
```



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**5' Read Nucleotide Sequence:**

>OriGene 5' read for NM\_153187 unedited  
 NGTCAGAAATTTGTATACGACTCCTATAGGCGGCCGCGNAATTCGCACCAGCAGAGCAGGT  
 CTGGCCACGGCCATGAGCATGCTGAGCCATCATGCCACCGTGGATGACATTCTGGAGCA  
 GGTGGGGAGTCTGGCTGGTCCAGAAGCAAGCCTTCTCATCTTATGCCTGCTGTCCGGC  
 TGCCTTTGCGCCCATCTGTGTGGGCATCGTCTTCTGGGTTTACACCTGACCACCACTG  
 CCAGAGTCCTGGGTGGCTGAGCTGAGCCAGCGCTGTGGCTGGAGCCCTGCGGAGGAGCT  
 GAACTATACAGTGCCAGGCCTGGGGCCCGGGCGAGGCCTTCTTGGCCAGTGACAGGCG  
 CTATGAAGTGGACTGGAACCAGAGCGCCCTCAGCTGTGTAGACCCCTGGCTAGCCTGGC  
 CACCAACAGGAGCCACCTGCCGCTGGGTCCCTGCCAGGATGGCTGGGTGTATGACACGCC  
 CGGCTCTTCCATCGTCACTGAGTTCAACCTGGTGTGTGCTGACTCCTGGAAGCTGGACCT  
 CTTTCAGTCTGTTTGAATGCGGGCTTCTTCTTTGGCTCTCTCGGTGTTGGCTACTTTGC  
 AGACAGGTTTGGCCGTAAGCTGTGTCTCCTGGAACTGTGCTGGTCAACGCGGTGTCCGG  
 CGTGCTCATGGCCTTCTCGCCAACTACATGTCCATGCTGCTCTCCGCCTGCTGCAGGG  
 CCTGGTCAGCAAGGGCAACTGGATGGCTGGCTACACCCTAATACAGAATTTGTTGGCTCG  
 GGCTCCAGAAGAACGGTGGCGATCATGTACCAGATGGCCTTACGGTGGGGGCTGGNTGG  
 CGCTTACCGGGCTGGCCTACGCCCTGCCTCACTGGCGCTGGCTGCGNNCTGGCAGTCTCC  
 CTGCCACCTTTCTCTC

**3' Read Nucleotide Sequence:**

>OriGene 3' genomic read for NM\_153187 unedited  
 NTTTTACTCTGGAACCGCGCCGAATCTANGACTCGAGTTTTTTTTTTTTTTTTTTTTTTT  
 TGAAAAAGGTCTGTTCTGTCAACCCAGGCTGGTGTGCAATGGCATAATCATGGCTCACTG  
 CAGCCTTGAATTTCTGGGCTCAAGTAAGCCTCCCACCTCTGCCTCCCTAATAGCTGGGAC  
 TGCAGGTGTGGGCCACCACATCCAGCTAACTTTTTCCCTTTTTTTGTAGACACAGGCTCTC  
 ACTGTTGCCACGCTGGTCGAAAACCTCCTGGGCTCAAGCAATCCTCCTGCCTCAGCCTCC  
 CAAAGTGTGGGATCACAGGCGTGAGCCACCAACCCAGCTACCCAAATATTTTCAGTCT  
 GCAGTGGCTTGAATCCACAGATGTGGAACCCACAGATATGGAAGGCTGATTGTACTCTCC  
 AAGCAATCTACATGTTGAAAGGTTTTACCAATATAGATACATACAAATGCAAAGGCATT  
 TTGTTTCAGAGAGTGAATCAAACCAATTTTCTTTCTAGAAAATTTCTTTCTAGAATACTTA  
 TTCTAGGAATCCAATTACACAGCCCTCTTTATAGCAATATTTAAATTCTACTGATCTTC  
 AAACGCCTTTAGATAATTAAGTACCCGATACCAATAGCACCAACAGCTTTCCCTAGATCG  
 AATGCACAGGTGGAAGATAGCCAGGGCTTTGGAGAACTTAAAAGAAAGAAAACAAAATAA  
 GACAAAGCCACACAAACCAATTCTTTANGACTGATATTAATTTGGGGGTAGGCAAGTATG  
 AGGAAGAATACAGAGAGTGAAGGCGTCTAGGAATTTCTGCAGAGGATACTNCATCTTCAT  
 CCCTTACACGACACGNCGAAACATCTCTCTCAGTGCCCGAGGTTCTGAGGTTTGGGA  
 CCTAAGTAAATCGNGTTTCTTTGGGCCTTGCTTCAACAAATGAGGGNCA

**Restriction Sites:**

NotI-NotI

**ACCN:**

NM\_153187

**Insert Size:**

2680 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\\_153187.1](#), [NP\\_694857.1](#)

**RefSeq Size:** 1808 bp

**RefSeq ORF:** 1521 bp

**Locus ID:** 6580

**UniProt ID:** [O15245](#)

**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. Two transcript variants encoding two different isoforms have been found for this gene, but only the longer variant encodes a functional transporter. [provided by RefSeq, Jul 2008]  
Transcript Variant: This variant (2) lacks an alternate exon compared to variant 1, that causes a frameshift. The resulting isoform (b) has a distinct C-terminus compared to isoform a.