

## Product datasheet for **SC306553**

### SLC22A2 (NM\_153191) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A2 (NM_153191) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC22A2
Synonyms:	MGC32628; OCT2; OCT2, MGC32628; organic cation transporter (OCT2); organic cation transporter 2; OTTHUMP00000017538; solute carrier family 22 (organic cation transporter), member 2; solute carrier family 22 member 2
Mammalian Cell Selection:	None
Vector:	<u><a href="#">pCMV6-XL5</a></u>
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_153191 edited  
TCTCAGCCTCGCTCCGGGCACGTCGGGCAGCCTCGGGCCCTCCTGCCTGCAGGATCATGC  
CCACCACCGTGGACGATGTCCTGGAGCATGGAGGGGAGTTTCACTTTTTCCAGAAGCAA  
TGTTTTCTCTTGCTCTGCTCTCGGCTACCTTCGCGCCCATCTACGTGGGCATCGTCT  
TCCTGGGCTTACCCCTGACCACCGCTGCCGGAGCCCCGGAGTGGCCGAGCTGAGTCTGC  
GCTGCGGCTGGAGTCTGCAGAGGAAGTGAACACACGGTCCCGGGCCAGGACCTGCGG  
GCGAAGCCTCCCAAGACAGTGTAGGCGTACGAGGTGGACTGGAACAGAGCACCTTCG  
ACTGCGTGGACCCCTGGCCAGCCTGGACACCAACAGGAGCCGCTGCCACTGGGCCCT  
GCCGGGACGGCTGGGTGTACGAGACGCCTGGCTCGTCCATCGTACCGAGTTTAACTGG  
TATGTGCCAACTCCTGGATGTTGGACCTATTCCAGTCATCAGTGAATGTAGGATTCTTTA  
TTGGCTCTATGAGTATCGGCTACATAGCAGACAGGTTTGGCCGTAAGCTCTGCCTCCTAA  
CTACAGTCTCATAAATGCTGCAGCTGGAGTTCTCATGGCCATTTCCCAACCTATACGT  
GGATGTTAATTTTTCGCTTAATCCAAGGACTGGTCAGCAAAGCAGGCTGGTTAATAGGCT  
ACATCCTGATTACAGAATTTGTTGGCGGAGATATCGGAGAACAGTGGGGATTTTTTACC  
AAGTTGCCTATACAGTTGGGCTCCTGGTCTAGCTGGGGTGGCTTACGCACTTCCTCACT  
GGAGGTGGTTGCAGTTACAGTTGCTCTGCCAACTTCTTCTTCTGCTCTATTACTGGT  
GCATACCTGAGTCTCCCAGGTGGCTGATCTCCCAGAATAAGAATGCTGAAGCCATGAGAA  
TCATTAAGCACATCGCAAAGAAAATGGAAAATCTCTACCCGCTCCCTTCAGCGCCTGA  
GACTTGAAGAGGAAACTGGCAAGAAATTGAACCCTTCATTTCTTGACTTGGTCAGAACTC  
CTCAGATAAGGAAACATACTATGATATTGATGTACAACGGTTACAGGCTCTGTGCTCT  
ACCAGGGCCTCATCATGCACATGGGCTTGCAGGTGACAATATCTACCTGGATTTCTTCT  
ACTCTGCCCTGGTTGAATCCCAGTGCCTTCATGATCATCTCACCATCGACCGCATCG  
GACGCCCTTACCCTGGGCTGCATCAAATATGGTTGACGGGCGAGCCTGTCTGGCCTCAG  
TTTTTATACCTGGTGGTAAGTTTCAGGTGAAGTTGGAGTCTTATCTCCAAGACCCTGGAG  
AAAGGGAGTGTACGGCCATTGATAGGAAAACCATGTAATTTGCATCAAATCAATTT  
GGAAAGACAAATGGAGGGCAGTATCTGGGACCCTTCTGAGCAAATTCATATGGCCAGCC  
TCCCTTAGGAAAATTTGACCAATTTTTCTTGATGTGAT

**5' Read Nucleotide Sequence:** >OriGene 5' read for NM\_153191 unedited  
GGTCAAAATTTGTATACGACTCATATAGCGGCCGCGNAATTCGATCTGGTACCGGTCCG  
GAATCCCAGGATCTCAGCCTCGCTCCGGGCACGTCGGGCAGCCTCGGGCCCTCCTGCCT  
GCAGGATCATGCCACCACCGTGGACGATGTCCTGGAGCATGGAGGGGAGTTTCACTTTT  
TCCAGAAGCAAATGTTTTCTCTTGCTCTGCTCTCGGCTACCTTCGCGCCCATCTACG  
TGGGCATCGTCTTCTGGGCTTACCCCTGACCACCGCTGCCGGAGCCCCGGAGTGGCCG  
AGCTGAGTCTGCGCTGCGGCTGGAGTCTGCAGAGGAAGTGAACACACGGTCCCGGGCC  
CAGGACCTGCGGGCGAAGCCTCCCAAGACAGTGTAGGCGTACGAGGTGGACTGGAACC  
AGAGCACCTTCGACTGCGTGGACCCCTGGCCAGCCTGGACACCAACAGGAGCCGCTGC  
CACTGGGCCCCTGCCGGACGGTGGGTGTACGAGACGCCTGGCTCGTCCATCGTACCCG  
AGTTTAACTGGTATGTGCCAACTCCTGGATGTTGGACCTATTCCAGTCATCAGTGAATG  
TAGGATTTCTTTATGGCTCTATGAGTATCGGCTACATAGCAGACAGGTTTGGCCGTAAGC  
TCTGCCTCCTAACTACAGTCTCATAAATGCTGCAGCTGGAGTTCTCATGGCCATTTCC  
CCACCTATACGTGGATGTTATTTTTCGCTTAATCCAAGGACTGGTCAGCAAAGCAGGCT  
GGGTAATAGGCTACATCCTGATTACAGAATTTGTTGGCGGAGATATCGGAGAA

<b>3' Read Nucleotide Sequence:</b>	>OriGene 3' read for NM_153191 unedited CATGGNGTGGCAATTCAGCCAGGAAGCCTGGGGAGGGTACAGGTGCCCCGGATCTGT CAGAAACAGCTATGACCGCGGCCCAATCTAGATTCACATCAAGGAAAAATTGGGTACAA TTTTTCTAAAGGGAGGCTGGCCATATGAATTTGCTCAGAAGGGTCCCAGATACTGCCCT CCAATTTGTCTTTCCAAATTGATTTGGATGACAAATTACATGGTTTTCTATCAATGGGC CGTGACACTCCCTTTCTCAGGGTCTTGGAGATAAGACTCCAACCTCACCTGAAACTTAC CACCAGGTATAAAAAGTGGCCAGACAGGCTGCCCTGCAACCATATTTGATGCAGCCC AAGGGTAACGGCGTCCGATGCGGTGATGGTGAGGATGATCATGAAGGCAGCTGGGAATT CAACCAGGGCAGAGTAGAAGAAATCCAGGTAGATATTGTACCTGCAAGGCCATGTGCA TGATGAGGCCCTGGTAGAGCACAGAGCTCGTGAACCAGTTGTACATCAATATCATAGTAT GTTTCCTATCTGAGGAGTTCTGACCAAGTCAAGAAATGAAGGGTTCAATTTCTTGCCAG TTTCTCTTCAAGTCTCAGGCGCTGAAGGGAGGCGGGTAGAGATTTTCCATTTTTCTTTG CGATGTGCTTAATGATTCTCATGGCTTCAGCATTCTTATTCTGGGAGATCAGCCACCTGG GAGACTCANGTATGCACCAGTNATAGAGCAAGAAGAAGAAGTTGGGCAGAGCAACTGTGA ACTGCAACCACCTCCAGTGAGGAAGTGCCTAAGCCC
<b>Restriction Sites:</b>	Please inquire
<b>ACCN:</b>	NM_153191
<b>Insert Size:</b>	1500 bp
<b>OTI Disclaimer:</b>	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).
<b>OTI Annotation:</b>	The open reading frame of this TrueClone was fully sequenced and found to be a perfect match to the protein associated to this reference.
<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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_153191.1</a> , <a href="#">NP_694861.1</a>
<b>RefSeq Size:</b>	3686 bp
<b>RefSeq ORF:</b>	1485 bp
<b>Locus ID:</b>	6582
<b>Cytogenetics:</b>	6q25.3
<b>Protein Families:</b>	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. It is found primarily in the kidney, where it may mediate the first step in cation reabsorption. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) contains an alternate segment compared to variant 1, that causes a frameshift. The resulting isoform (b), also called OCT2-A, has a distinct C-terminus compared to isoform a.