

Product datasheet for **SC126370**

SLC22A2 (NM_003058) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A2 (NM_003058) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC22A2
Synonyms:	OCT2
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene sequence for NM_003058 edited
 CTCAGCCTCGCTCCGGGCACGTCGGGCAGCCTCGGGCCCTCCTGCCTGCAGGATCATGCC
 CACCACCGTGGACGATGTCCTGGAGCATGGAGGGGAGTTTCACTTTTTCCAGAAGCAAAT
 GTTTTTCTCTTGGCTCTGCTCTCGGCTACCTTCGCGCCCATCTACGTGGGCATCGTCTT
 CCTGGGCTTACCCTGACCACCGCTGCCGAGCCCGGAGTGGCCGAGCTGAGTCTGCG
 CTGCGGCTGGAGTCTGCAGAGGAAGTGAACACACGGTCCGGGCCAGGACCTGCGGG
 CGAAGCCTCCCCAAGACAGTGTAGGCGCTACGAGGTGGACTGGAACAGAGCACCTTCGA
 CTGCGTGGACCCCTGGCCAGCCTGGACACCAACAGGAGCCGCTGCCACTGGGCCCTG
 CCGGGACGGCTGGGTGTACGAGACGCTGGCTCGTCCATCGTACCCGAGTTTAACTGGT
 ATGTGCCAACTCCTGGATGTTGGACCTATTCCAGTCATCAGTGAATGTAGGATTCTTTAT
 TGGCTCTATGAGTATCGGCTACATAGCAGACAGGTTTGGCCGTAAGCTCTGCCTCCTAAC
 TACAGTCTCATAAATGCTGCAGCTGGAGTTCTCATGGCCATTTCCCAACCTATACGTG
 GATGTTAATTTTTCGTTAATCCAAGGACTGGTCAGCAAAGCAGGCTGGTAAATAGGCTA
 CATCCTGATTACAGAATTTGTTGGCGGAGATATCGGAGAACAGTGGGGATTTTTTACCA
 AGTTGCCTATACAGTTGGGCTCCTGGTGTAGCTGGGGTGGCTTACGCACCTTCTCACTG
 GAGGTGGTTGCAGTTCACAGTTTCTCTGCCAACTTCTTCTTCTGCTCTATTACTGGTG
 CATACTGAGTCTCCAGGTGGCTGATCTCCAGAAATAAGAATGCTGAAGCCATGAGAAT
 CATTAAAGCACATCGCAAAGAAAAATGAAAAATCTTACCCGCCTCCCTTACGCGCCTGAG
 ACTTGAAGAGGAACTGGCAAGAAATTGAACCTTCATTTCTGACTTGGTCAGAACTCC
 TCAGATAAGGAAACATACTATGATATTGATGTACAACCTGGTTCACGAGCTCTGTGCTCTA
 CCAGGGCCTCATCATGCACATGGGCCTTGCAAGTGACAATATCTACCTGGATTTCTTCTA
 CTCTCGCTGGTTGAATTTCCAGCTGCCTCATGATCATCCTCACCATCGACCGCATCGG
 ACGCCGTTACCCTTGGGCTGCATCAAATATGGTTCAGGGGCAGCCTGTCTGGCCTCAGT
 TTTTATACCTGGTGATCTACAATGGCTAAAAATTATTATCTCATGCTTGGGAAGAATGGG
 GATCACAATGGCCTATGAGATAGTCTGCCTGGTCAATGCTGAGCTGTACCCACATTCAT
 TAGGAATCTTGGCGTCCACATCTGTTCCATGTGTGACATTGGTGGCATCATCACGCC
 ATTCTGGTCTACCGCTCACTAACATCTGGCTTGGCTGAGCTCCCGCTGATGGTTTTCGGCGT
 GCTTGGCTTGGTGTGAGGCTGGTGTGTTGCTTCCAGAACTAAAGGGAAAGCTTT
 GCCTGAGACCATCGAGGAAGCCGAAAATATGCAAAGACCAAGAAAAATAAAGAAAAGAT
 GATTTACCTCAAAGTTCAGAACTAGACATTCCATTGAACTAAGAAGAGAGACCGTTGCT
 GCTGTCATGACCTAGCTTTGATGGCAGCAAGACCAAAAGTAGAAATCCCTGCACTCATCA
 CAAAGCCATACAACCTAACCAACTTACCCCTGAGCCCTATCAACCTAGGTCTACAGCC
 AGTGGAGTCTATTGTACTGTGAAAAATACCCATGGGACCAGATCCTGCCAAATTTCTT
 CCAGCTCACTTTATTCTCAGCATTCTAGGACATTGGACATTGGTTTTCTGGAGGGTTTT
 TTTTCCATCTTTGATTTTTTTAAATTTGATTCTTTTCTTTGCAATGCTATCTAACCCAGA
 ATACATAGGGGAACTGTGGGCTAGGCAACAAAATAGAAAAAGTGTGAAAAACAGTAA
 GTTGGGAGAGGAGCATCTATTTTCTTAAAGAAATAAACACCCAAAACAATATAAAGTTG
 TCCAGAATGTATGTCAAGAATTTTAGATAGGCCTTTAGTAACACAGGTGAAGAAATTTT
 TAAAAATACATTGATTATTATCTAGGTTAGACTTAAAGTGAATCTCAAATAAAGAAATCA
 GGAATACAACCTAAGTGATCATGAGGTCCTTCCATATTTAGATTGGGTAAGCATGAATGT
 GTATTTTCTACAAAAGACCTTGAGAAGAGTTCAATAAAAAATGTTAGCATTAT

Restriction Sites: NotI-NotI

ACCN: NM_003058

Insert Size: 2400 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).

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:	NM_003058.2 , NP_003049.1
RefSeq Size:	2512 bp
RefSeq ORF:	1668 bp
Locus ID:	6582
UniProt ID:	O15244
Cytogenetics:	6q25.3
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. It is found primarily in the kidney, where it may mediate the first step in cation reabsorption. [provided by RefSeq, Jul 2008]