

Product datasheet for **SC126568**

SLC22A4 (NM_003059) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A4 (NM_003059) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC22A4
Synonyms:	DFNB60; OCTN1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL4</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC126568 sequence for NM_003059 edited (data generated by NextGen Sequencing)

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ATGCGGGACTACGACGAGGTGATCGCCTTCTGGGCGAGTGGGGGCCCTCCAGCGCCTC
ATCTTCTTCTGCTCAGCGCCAGCATCATCCCAATGGCTTCAATGGTATGTCAGTCGTG
TTCCTGGCGGGGACCCCGGAGCACCCTGTCGAGTGCCGGACCCCGGAACCTGAGCAGC
GCCTGGCGCAACAACAGTGTCCCGCTGCGGCTGCGGGACGGCCGCGAGGTGCCCAACAGC
TGCAGCCGCTACCGGCTCGCCACCATCGCAACTTCTCGGCGCTCGGGCTGGAGCCGGGG
CGCGACGTGGACCTGGGGCAGCTGGAGCAGGAGAGCTGCCTGGATGGCTGGGAGTTCAGC
CAGGACGTCTACCTGTCCACCGTCGTGACCGAGTGAATCTGGTGTGTGAGGACAACCTGG
AAGGTGCCCTCACACCTCCCTGTTCTTCGTAGGCGTGTCTCTCGGCTCCTTCGTGTCC
GGGCAGCTGTCAGACAGGTTTGGCAGGAAGAAGCTTCTCTCGCAACCATGGCTGTACAG
ACTGGCTTCAGCTTCTGCAGATTTTCTCCATCAGCTGGGAGATGTTCACTGTGTATTT
GTCATCGTGGGCATGGCCAGATCTCCAATATGTGGTAGCCTTCATACTAGGAACAGAA
ATTCTTGGCAAGTCAGTTCGTATTATATTCTCTACATTAGGAGTGTGCACATTTTTTGA
GTTGGCTATATGTGCTGCCACTGTTTGCTTACTTCATCAGAGACTGGCGGATGTGCTG
CTGGCGCTGACCGTGGCCGGAGTCTGTGTGTCCCGCTGTGGTGGTTCATTCCTGAATCT
CCCCGATGGCTGATATCCAGAGAAGATTTAGAGAGGCTGAAGATATCATCCAAAAGCT
GCAAAAATGAACAACATAGCTGTACCAGCAGTGATATTTGATTCTGTGGAGGAGCTAAAT
CCCCTGAAGCAGCAGAAAAGCTTTCATTCTGGACCTGTTCCAGGACTCGGAATATTGCCATA
ATGACCATTATGTCTTGGCTGCTATGGATGCTGACCTCAGTGGGTACTTTGCTCTGTCT
CTGGATGCTCCTAATTTACATGGAGATGCCTACCTGAAGTGTTCCTCTCTGCTTGATT
GAAATTCAGCTTACATTACAGCCTGGCTGCTATTGCGAACCTGCCAGGCGTTATATC
ATAGTCGAGTACTGTTCTGGGGAGGAGGTGCTTCTCTTCACTCAACTGGTACCTGTG
GATTATTACTTCTTATCCATTGGTCTGGTCATGCTGGGAAAAATTTGGGATCACCTCTGCT
TTCTCCATGCTGTATGTCTTCACTGCTGAGCTCTACCCAACCCTGGTCAGGAACATGGCG
GTGGGGGTACATCCACGGCCTCCAGAGTGGGCAGCATATTGCCCCCTACTTTGTTTAC
CTCGGTGCTTACAACAGAATGCTGCCCTACATCGTCATGGGTAGTCTGACTGTCTGATT
GGAATCCTCACCTTTTTTCCCTGAAAGTTTGGGAATGACTCTCCAGAAAACCTTAGAG
CAGATGCAGAAAGTGAATGGTTCAGATCTGGGAAAAAACAAGAGACTCAATGGAGACA
GAAGAAAATCCCAAGTTCTAATAACTGCATTCTGA
    
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Clone variation with respect to NM_003059.2
1233 g=>c

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003059 unedited

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NNGGTCAGGACAGAATTGTATACGACTCATATAGGCGGACCGGAATCCCGGGCTCCTGT
TTCCCAGNAACGGTCCCGGCTTCGCGCCCAATTTCTAACAGCCTGCCTGAGAACGCTGTC
AACGTTCTAACATCCTTGGGGAGCGCCCAAGCTACAAGACTGTCTGAGAACGCTGTC
ATCACCCGTAGTTGCAAGTTTCGGAGCGCAGTGGGAAGCATGCGGGACTACGACGAGGT
GATCGCCTTCTGGGCGAGTGGGGGCCCTTCCAGCGCCTCATCTTCTTCTGCTCAGCGC
CAGCATCATCCCAATGGCTTCAATGGTATGTCAGTCGTGTTCTGGCGGGGACCCCGGA
GCACCGCTGTCGAGTGCCGGACGCCCGAACCTGAGCAGCGCCTGGCGCAACAACAGTGT
CCCCTGCGGCTGCGGGACGGCCGCGAGGTGCCCAACAGCTGCAGCCGCTACCGGCTCGC
CACCATCGCAACTTCTCGGCGCTCGGGCTGGAGCCGGGGCGCGAGCTGGACCTGGGGCA
GCTGGAGCAGGAGAGCTGCCTGGATGGTGGGAGTTTTCAGCCAGGACGTCTACCTGTCCAC
CGTCGTGACCGAGTGAATCTGGTGTGTGAGGACAACCTGGAAGGTGCCCTCACACCTC
CCTGTTCTTCTGAGGCGTGTCTCCTCGGCTCCTTCTGTGTCCGGGCAGCTGTGAGACAGTT
TGGCAGGAAGAAGCTTCTTCTCGCAACCATGGCTGTACAGACTGGCTTACGCTTCTGCA
GATTTTCTCCATCAGCTGGGAGATGTTCACTGTGTTATTTGTCATCGTGGGCATGGGCCA
GATCTCCNACTATGTGGTAGCCT
    
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Restriction Sites: Please inquire

ACCN:	NM_003059
Insert Size:	2300 bp
OTI Disclaimer:	<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 custsupport@origene.com 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. More info</p>
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_003059.2 , NP_003050.2
RefSeq Size:	2214 bp
RefSeq ORF:	1656 bp
Locus ID:	6583
UniProt ID:	Q9H015
Cytogenetics:	5q31.1
Domains:	sugar_tr
Protein Families:	Transmembrane
Gene Summary:	<p>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. The encoded protein is an organic cation transporter and plasma integral membrane protein containing eleven putative transmembrane domains as well as a nucleotide-binding site motif. Transport by this protein is at least partially ATP-dependent. [provided by RefSeq, Jul 2008]</p>