

Product datasheet for **SC125624**

SLC22A12 (NM_144585) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC22A12 (NM_144585) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC22A12
Synonyms:	OAT4L; RST; URAT1
Mammalian Cell Selection:	None
Vector:	<u>pCMV6-XL5</u>
E. coli Selection:	Ampicillin (100 ug/mL)



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Fully Sequenced ORF: >OriGene ORF within SC125624 sequence for NM_144585 edited (data generated by NextGen Sequencing)

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ATGGCATTCTGAACTCCTGGACCTCGTGGGTGGCCTGGGCAGGTTCCAGGTTCTCCAG
ACGATGGCTCTGATGGTCTCCATCATGTGGCTGTGATCCAGAGCATGCTGGAGAATTC
TCGGCCGCGTGCCAGCCACCGCTGCTGGGCACCCCTCTGGACAACAGCACGGCTCAG
GCCAGCATCCTAGGGAGCTTGAGTCTGAGGCCCTCTGGCTATTCCATCCCCCGGGC
CCCAACCAGAGGCCCATCAGTCCGCGCCCTCCGCCAGCCACAGTGGCAGCTCTTGGAC
CCCAATGCCACGGCCACCAGCTGGAGCGAGGCCGACACGGAGCCGTGTGTGGATGGCTGG
GTCTATGACCGCAGCATCTTACCTCCACAATCGTGGCCAAGTGGAACTCGTGTGTGAC
TCTCACGCTCTGAAGCCCATGGCCAGTCCATCTACCTGGCTGGGATTCTGGTGGGAGCT
GCTGCGTGCAGCCCTGCCTCAGACAGGTTTGGCGCAGGCTGGTGTAACTGGAGCTAC
CTTCAGATGGCTGTGATGGGTACGGCAGCTGCCTTCGCCCTGCCTTCCCGTGTACTGC
CTGTTCCGCTTCTGTTGGCCTTTCGCGTGGCAGGCGTCATGATGAACACGGGCACTCTC
CTGATGGAGTGGACGGCGCACGGGCCACCCCTTGGTGTGACCTTGAACCTCTCTGGGC
TTCAGCTTCGGCCATGGCCTGACAGCTGCAGTGGCCTACGGTGTGCGGGACTGGACTG
CTGCAGCTGGTGGTCTCGGTCCCTTCTCCTCTGCTTTTTGTACTCTGGTGGCTGGCA
GAGTCGGCAGCATGGCTCCTCACCACAGGCAGGCTGGATTGGGGCCTGCAGGAGCTGTGG
AGGGTGGCTGCCATCAACGGAAGGGGGCAGTGCAGGACACCCTGACCCCTGAGGTCTTG
CTTTCAGCCATGCGGGAGGAGCTGAGCATGGGCCAGCCTCCTGCCAGCCTGGGCACCCCTG
CTCCGATGCCGGAGTGCCTTCCGGACCTGTATCTCCACGTTGTGCTGGTTCGCCTTT
GGCTTACCTTCTTCGGCCTGGCCCTGGACCTGCAGGCCCTGGGCAGCAACATCTTCTG
CTCCAAATGTTTATTGGTGTGCTGGACATCCCAGCCAAGATGGGCGCCCTGCTGCTGCTG
AGCCACTGGGCGCGCCACCGCTGGCCGATCCCTGTTGCTGGCGGGGCTCTGCATTGCTG
ATGGCCAACAGCTGGTGCCTCCACGAAATGGGGGCTCTGCGCTCAGCCTTGGCCGTGTG
GGGCTGGGCGGGGTGGGGCTGCCTTACCTGCATCACCATCTACAGCAGCGAGCTTTC
CCCCTGTGCTCAGGATGACGGCAGTGGGCTTGGGCCAGATGGCAGCCCGTGGAGGAGCC
ATCCTGGGGCCTCTGGTCCGGCTGCTGGGTGTCCATGGCCCTGGCTGCCCTTGTGGTG
TATGGGACGGTGCAGTGTGAGTGGCCTGGCCGACTGCTTCTGCCGAGACCCAGAGC
TTGCCGCTGCCGACACCATCAAGATGTGCAGAACAGGCAGTAAAGAAGGCAACACAT
GGCAGCTGGGGAATCTGTCTAAAATCCACACAGTTTTAG
    
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Clone variation with respect to NM_144585.2
 258 c=>t;426 t=>c;1248 a=>g

Restriction Sites: Please inquire

ACCN: NM_144585

OTI Disclaimer: 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.

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](#)

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:	<u>NM_144585.2</u> , <u>NP_653186.2</u>
RefSeq Size:	3206 bp
RefSeq ORF:	1662 bp
Locus ID:	116085
UniProt ID:	<u>Q96S37</u>
Cytogenetics:	11q13.1
Protein Families:	Transmembrane
Gene Summary:	<p>The protein encoded by this gene is a member of the organic anion transporter (OAT) family, and it acts as a urate transporter to regulate urate levels in blood. This protein is an integral membrane protein primarily found in epithelial cells of the proximal tubule of the kidney. An elevated level of serum urate, hyperuricemia, is associated with increased incidences of gout, and mutations in this gene cause renal hypouricemia type 1. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2013]</p> <p>Transcript Variant: This variant (1) represents the longest transcript and encodes the longest isoform (a).</p>