

Product datasheet for **SC333303**

SLC22A12 (NM_153378) Human Untagged Clone

Product data:

Product Type: Expression Plasmids
Product Name: SLC22A12 (NM_153378) Human Untagged Clone
Tag: Tag Free
Symbol: SLC22A12
Synonyms: OAT4L; RST; URAT1
Vector: pCMV6-Entry (PS100001)
Fully Sequenced ORF: >SC333303 representing NM_153378.
Blue=Insert sequence Red=Cloning site Green=Tag(s)

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ATGGAGTGGACGGCGGCACGGGCCGACCCCTTGGTGATGACCTTGAACCTCTGCGCTTCAGCTTCGGC  
CATGGCCTGACAGCTGCAGTGGCCTACGGTGTGCGGGACTGGACACTGCTGCAGCTGGTGGTCTCGGTC  
CCCTTCTCTCTGCTTTTTGTACTCCTGGTGGCTGGCAGAGTCGGCAGATGGCTCCTCACCACAGGC  
AGGCTGGATTGGGCCTGCAGGAGCTGTGGAGGGTGGCTGCCATCAACGAAAGGGGGCAGTGCAGGAC  
ACCCTGACCCCTGAGGTCTTGTTCAGCCATGCGGGAGGAGCTGAGCATGGGCCAGCCTCCTGCCAGC  
CTGGGCACCCTGCTCCGATGCCCGACTGCGCTTCCGGACCTGTATCTCCACGTTGTGTGGTTGCC  
TTTGGCTTACCTTCTTGGCCTGGCCCTGGACCTGCAGGCCCTGGGCAGCAACATCTTCTGCTCCAA  
ATGTTTCATTGGTGTCTGGACATCCCAGCAAGATGGGCGCCCTGCTGCTGCTGAGCCACCTGGGCCG  
CGCCCCACGCTGGCCGCATCCCTGTTGCTGGCAGGGCTCTGCATTCTGGCCAACACGCTGGTGGCCAC  
GAAATGGGGGCTCTGCGCTCAGCCTTGGCCGTGCTGGGGCTGGGCGGGGTGGGGGCTGCCTTACCTGC  
ATCACCATCTACAGCAGCGAGCTTCCCCACTGTGCTCAGGATGACGGCAGTGGGCTGGGCCAGATG  
GCAGCCCGTGGAGGAGCCATCCTGGGCCTCTGGTCCGGCTGCTGGGTGTCCATGGCCCCCTGGCTGCC  
TTGCTGGTGTATGGACGGTCCAGTGTGAGTGGCTGGCCGCACTGCTTCTGCCCGAGACCCAGAGC  
TTGCCGCTGCCGACACCATCCAAGATGTGAGAACCAGGCAGTAAAGAAGGCAACACATGGCACGCTG  
GGGAACCTGTCTCTAAAATCCACACAGTTTAG
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Restriction Sites: Sgfl-Mlul
ACCN: NM_153378
Insert Size: 999 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_153378.2](#)

RefSeq Size: 2960 bp

RefSeq ORF: 999 bp

Locus ID: 116085

UniProt ID: [Q96S37](#)

Cytogenetics: 11q13.1

Protein Families: Transmembrane

MW: 35.6 kDa

Gene Summary: 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]
Transcript Variant: This variant (2) contains alternate 5' exon structure, lacks a portion of the 5' coding region, and uses a downstream in-frame start codon, compared to variant 1. The encoded isoform (b) is shorter at the N-terminus, compared to isoform a.