

Product datasheet for **RC211872**

SLC22A1 (NM_003057) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | SLC22A1 (NM_003057) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | SLC22A1 |
| Synonyms: | HOCT1; OCT1; oct1_cds |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC211872 representing NM_003057
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCACCGTGGATGACATTCTGGAGCAGTTGGGGAGTCTGGTGGTCCAGAAGCAAGCCTTCCTCA
 TCTTATGCCTGCTGTCGGCTGCCTTTGCGCCATCTGTGTGGCATCGTCTTCTGGGTTTCACACCTGA
 CCACCACTGCCAGAGTCCTGGGGTGGCTGAGCTGAGCCAGCGCTGTGGCTGGAGCCCTGCGGAGGAGCTG
 AACTATACAGTGCCAGGCCTGGGGCCGCGGGCGAGGCCTTCTTGGCCAGTGCAGGCGCTATGAAGTGG
 ACTGGAACCAGAGCGCCCTCAGCTGTGTAGACCCCTGGCTAGCCTGGCCACCAACAGGAGCCACCTGCC
 GCTGGGTCCTGCCAGGATGGCTGGGTGTATGACACGCCCGGCTTCCATCGTCACTGAGTTCAACCTG
 GTGTGTGCTGACTCCTGGAAGCTGGACCTTTTTCAGTCTGTTTGAATGCGGGCTTCTTGTGGTCTC
 TCGGTGTTGGCTACTTTGCAGACAGTTTGGCCGTAAGCTGTGTCTCCTGGGAAGTGTGCTGGTCAACGC
 GGTGTGCGGGCTGCTCATGGCCTTCTCGCCCAACTACATGTCCATGCTGCTCTTCCGCTGCTGCAGGGC
 CTGGTCAGCAAGGGCAACTGGATGGCTGGCTACACCCTAATCACAGAATTTGTTGGCTCGGGCTCCAGAA
 GAACGGTGGCGATCATGTACCAGATGGCCTTACGGTGGGGCTGGTGGCGCTTACCGGGCTGGCCTACGC
 CCTGCCTCACTGGCGTGGCTGCAGCTGGCAGTCTCCCTGCCACCTTCTTCTTCTGCTCTACTACTGG
 TGTGTGCCGGAGTCCCCTCGGTGGCTGTATCACAAAAAAGAACTGAAGCAATAAAGATAATGGACC
 ACATCGCTCAAAGAATGGGAAGTTGCCTCCTGCTGATTTAAAGATGCTTCCCTCGAAGAGGATGTCAC
 CGAAAAGCTGAGCCCTTCATTTGCAGACCTGTCCGCACGCCGCGCTGAGGAAGCGCACCTTCATCCTG
 ATGTACCTGTGGTTCACGGACTCTGTGCTCTATCAGGGCTCATCCTGCACATGGGCGCCACCAGCGGGA
 ACCTCTACCTGGATTTCTTTACTCCGCTCTGGTCGAAATCCCGGGGGCCTTCATAGCCCTCATCACCAT
 TGACCGGTGGGCGCATCTACCCCATGGCCATGTCAAATTTGTTGGCGGGGCGCCTGCCTCGTCATG
 ATTTTTATCTACCTGACCTGCACTGGTTAAACATCATAATCATGTGTGTGGCCGAATGGGAATACCA
 TTGCAATACAAATGATCTGCCTGGTGAATGCTGAGCTGTACCCACATTCGTGAGGAACCTCGGAGTGAT
 GGTGTGTTCTCCCTGTGTGACATAGGTGGGATAATCACCCCTTCATAGTCTTCAGGCTGAGGGAGGTC
 TGGCAAGCCTTGGCCCTCATTTTGTGGGTGTTGGGCTGCTTGGCGGGAGTGACGCTACTTCTTC
 CAGAGACCAAGGGGTCGCTTTGCCAGAGACCATGAAGGACGCCGAGAACCTTGGGAGAAAAGCAAAGCC
 CAAAGAAAACACGATTTACCTTAAGTCCAACCTCAGAACCTCGGGCACC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211872 representing NM_003057
 Red=Cloning site Green=Tags(s)

MPTVDDILEQVGESGWFQKQAFILCLLSAAFAPICVGI VFLGFTPDHHCQSPGVAELSQRGWSPAEEL
 NYTVPLGLPAGEAFLGQCRRYEVDWNQSALSCVDPLASLATNRSHP LGPCQDGWVYDTPGSSIVTEFNL
 VCADSWKLDL FQSCLNAGFLFGSLGVGYFADRFRKLC LLGTVLVNAVSGVLMFSPNYMSMLLFRLLQG
 LVSKGNWMAGYTLITFVSGSRRTVAIMYQMAFTVGLVALTGLAYALPHWRWLQ LAVSLPTFLFLYYW
 CVPESPRWLLSQKRNTAIAIKIMDHIAQKNGKLPADLKMLSLEEDVTEKLSPSFADLFRTPRLRKRTFIL
 MYLWFTDSVLYQGLILHMGATSGNLYLDFLYSALVEIPGAFIALITIDRVGRIYPMAMSNLLAGAACLV
 MIFISPDLHWNIIIMCVGRMGITIAIQMICLVNAELYPFVRNLGVMVCSLDCDIGGIITPFIVFRLREV
 WQALPLILFAVLGLLAAGVTL LLLPETKGVALPETMKDAENLGRKAKPKENTIYLVQVTSSEPSGT

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_003057

ORF Size: 1662 bp

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](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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_003057.3](#)

RefSeq Size: 1921 bp

RefSeq ORF: 1665 bp

Locus ID: 6580

UniProt ID: [O15245](#)

Cytogenetics: 6q25.3

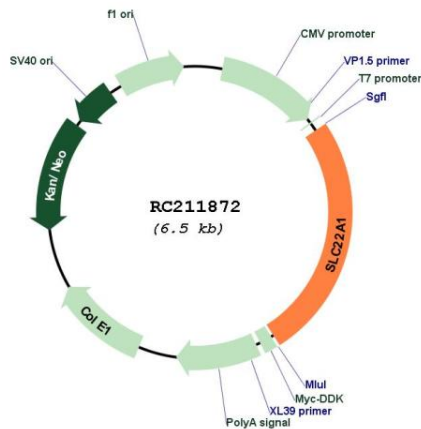
Domains: sugar_tr

Protein Families: Transmembrane

MW: 61 kDa

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. Two transcript variants encoding two different isoforms have been found for this gene, but only the longer variant encodes a functional transporter. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC211872