

Product datasheet for **RR202842**

Slc22a12 (NM_001034943) Rat Tagged ORF Clone

Product data:

| | |
|---------------------------|----------------------------------------------|
| Product Type: | Expression Plasmids |
| Product Name: | Slc22a12 (NM_001034943) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Slc22a12 |
| Synonyms: | Rst; Slc22a12; URAT1 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RR202842 representing NM_001034943
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCGTTTCTGAACCTCTGGACCGAGTAGGGGGCCGGGCAGGTTCCAGCTCCTCCAGGCAGTGGCTC
 TGGTGACCCCATTTTGTGGGTACCACCAGAACATGCTGGAGAACTTCTCAGCCGAGTTCCCCACCA
 CCGCTGTTGGGTGCCTTCTTGACAACAGCACCTCCAGGCGAGTATCCCTGGGACTTTGGACGAGAC
 GTTCTTCTGGCCGTCTCCATCCCACCTGGTCCGGATCAGCGACCCACCAGTGCCTCCGCTTCCGACAAC
 CTCAGTGGCAGCTTATAGAGTCCAACACCACGGCCACCACTGGAGCGACGCTGACACCGAGCCATGTGA
 GGATGGCTGGGTTTACGACCACAGTACCTTCAGGTCCACAATTGTGACCACGTGGACCTGGTATGTGAT
 TCCCAGGCTCTGAGACCCATGGCCAGTCCATCTTCTGGCTGGAATCCTGGTAGGAGCCGAGTGTGCC
 GCCATGCCTCAGATAGGTTTGGGCGCAGAAGGGTGTGACCTGGAGCTATCTTCTGGTGTCTGTGTCTGG
 CACAATAGCTGCCCTCATGCCACCTTCCCCTCTACTGCCTGTTCCGTTTCTGGTGGCCTCTGCAGTG
 GCAGGTGTCATGATGAACACAGCCAGCCTTGTATGGAGTGGACATCAGCCCAGGCTGGCCCTTGTATGA
 TGACCTTGAACGCCTTGGGCTTACGCTTGGGCGAGTCTGACAGGCTCTGTGGCCTACGGCGTGGCGAG
 CTGGAGGATGCTGCAGTTGGCTGTCTTGCCTTCTTCTTCTTCTTGTACTCATGGTGGCTGCCA
 GAATCAGCACGCTGGCTCATCACAGTGGGCGAGTGGACCAGAGCCTGCGGGAACACAGAGGGTGGCTG
 CTGTCAACAGGAGAAAGGAGGAGGACACGTTGACTGTGGAGGCTCTGCGGTGAGCCATGCAGGAGGA
 ACCGAACGGGAACCAAGCTGGTGCCTTGGGCGACTCTACTCCACACCTGGGCTGCGCCTCCGAACC
 TTCATCTCCATGCTGTGCTGGTTTGCCTTGGCTTACCTTCTATGGCCTGGCCCTGACCTGCAAGCCC
 TAGGAAGCAATATCTTCTGCTCCAGGACTCATCGGGATTGTGGACCTCCCGGTGAAGATGGGCGCCT
 GCTGCTGCTCAGCCGCTTGGGCGGCGCCTCTGCCAGGCCAGCTCCCTGGTGTGCGCGGACTCTGCATC
 CTGGCCAACTACTGGTGCCTGAGATGGGATCCTTCGCTCATCCTTGGCTGTGCTGGGCTGGGGT
 CCCTGGGGGTGCCTTACCTGTGTACCATATTCAGCAGTGAACCTTCCCACTGTGATCAGGATGAC
 TGCAGTGGGCTGGGCCAGGTAGCAGCCGAGGAGGAGCCATGCTAGGCGCTTGGTGGGCTGTGGGT
 GTCTATGGCTCCTGGCTGCCTCTGCTGGTGTATGGAGTGGTCCAGTGTTAAGCGCCTAGCTGCATTGC
 TGCTGCCTGAGACCAAGAACTTGCCACTGCCTGACACCATCCAAGACATCCAGAAACAGTCAGTGAAGAA
 AGTGACACATGACATAGCAGGCGCTCCGCTCTGAAGTCTGCCCGTTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR202842 representing NM_001034943
 Red=Cloning site Green=Tags(s)

MAFPELLDRVGGGRFQLLQAVLVTPILWVTTQNMLENFSAAVPHHRCWVPLLDNSTSQASIPGDFGRD
 VLLAVSIPPGPDQRPHQCLRFRQPWQLIESNTTATNWSADTEPCEDGWYDHSFRSTIVTTWDLVCD
 SQALRPMAQSIFLAGILVGAAVCGHASDRFGRRRVLTWSYLLVSVSGTIAALMPTFPLYCLFRFLVASAV
 AGVMMNTASLLMEWTSAGQPLMMLNLALGFSFGQVLTGSVAYGVRSWRMLQLAVSAPFFLFFVYSWWLP
 ESARWLITVGRLDQSLRELQRVAAVNRRKAEADTLTVEVLRSAEQEENGNQAGARLGTLLHTPGLRLRT
 FISMLCWFAGFTFYGLALDLQALGSNIFLLQALIGIVDLPVKMGSLLLL SRLGRRLCQASSLVPLGLCI
 LANILVPREMILRSSLAVLGLGSLGAAFTCVTIFSSELFPTVIRMTAVGLGQVAARGGAMLGPLVRLLG
 VYGSWLPVYGVVPLSGLAALLLPETKNLPLPDTIQDIQKQSVKKVTHDIAGGSVLKSARL

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001034943

ORF Size: 1659 bp

OTI Disclaimer: 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_001034943.1](#), [NP_001030115.1](#)

RefSeq Size: 2180 bp

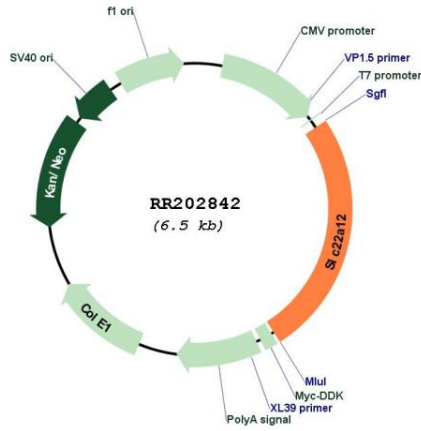
RefSeq ORF: 1662 bp

Locus ID: 365398

UniProt ID: [Q3ZAV1](#)

Cytogenetics: 1q43
 MW: 60.2 kDa
 Gene Summary: may act as an anion transporter; mRNA is expressed exclusively in kidney [RGD, Feb 2006]

Product images:



Circular map for RR202842