

Product datasheet for **RC211657**

SLC23A1 (NM_005847) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | SLC23A1 (NM_005847) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | SLC23A1 |
| Synonyms: | SLC23A2; SVCT1; YSPL3 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RC211657 representing NM_005847
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGGCCAGGAGACCTCGAGGGCCGACACAGCATGAAACCACAGGGACCCCTCGACCCCGCTAC
 CCACAGAGCCTAAGTTTGACATGTTGTACAAGATCGAGGACGTGCCACCTTGGTACCTGTGCATCCTGCT
 GGGCTTCCAGCACTACCTGACATGCTTCACTGGTACCATCGCCGTGCCCTTCTGCTGGCTGAGGCGCTG
 TGTGTGGGCCACGACCAGCACATGGTTAGTCAGCTCATCGGCACCATCTTACGTGCGTGGGCATCACCA
 CTCTCATCCAGACCACCGTGGGCATCCGGCTGCCGCTGTTCCAGGCCAGTGCCTTTGCATTTCTGGTTCC
 AGCCAAAGCCATACTGGCTCTGGAGAGATGAAATGCCCCCGGAAGAGGAGATCTACGGTAACTGGAGT
 CTGCCCTGAACACCTCTCATTTTGGCACCCACGGATACGGGAGGTCCAGGGTGAATCATGGTGTCCA
 GCGTGGTGGAGGTGGTATTGGCCTGCTGGGGCTGCCGGGCCCTGCTCAACTACATTGGGCCCTCAC
 AGTCACCCCACTGTCTCCCTCATTGGCCTTTCTGTCTTCCAAGCTGCTGGCGACCGAGCTGGCTCCAC
 TGGGGCATCTCAGCTTGTCCATTCTCCTGATCATCCTCTTCTCCAGTACCTGCCAACCTCACCTTCC
 TGCTGCCTGTCTACCGCTGGGGCAAGGGCCTCACTCTCCTCCGCATCCAGATCTTCAAAATGTTTCTAT
 CATGCTGGCCATCATGACCGTGTGGCTGCTGCTATGCTGACCTTGACAGACGTGCTGCCACAGAC
 CAAAAGCCTATGGCTTCCAGGCACGAACCGATGCCCGTGGTGACATCATGGCTATTGCACCCTGGATCC
 GCATCCCTACCCTGTCACTGGGGCTGCCACGGTACTGCGGCTGCTGTCTGGGAATGTTACAGCGC
 CACTCTGGCAGGCATCATTGAGTCCATCGGAGATTACTACGCTGTGCCCGCCTGGCTGGTGACCACCC
 CCTCCAGTACATGCTATCAACAGGGGCATCTTACCAGGCAATTTGCTGCATCATCGCGGGCTATTGG
 GCACGGCAACGGTCCACCTCGTCCAGTCCCAACATTGGCGTCTGGGAATACCAAGTGGGCGGCCG
 GCGCGTGGTGCAGTATGGTGGCGTATCATGCTGGTCTGGGCACCATCGCAAGTTCACGGCCCTCTTC
 GCCTCGCTCCCTGACCCATCCTGGGGGCATGTTCTGCACTCTCTTTGGCATGATTACAGCTGTGGGGC
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 CGGGCTCAGCTGCCAATTACCTGGAGTCCAACCCTGGCGCCATCAATACAGGCATTCTTGAAGTGGAT
 CAGATTCTGATTGTGCTGCTGACCACGGAGATGTTTGTGGCGGGTGCCTTGCTTTCATACTTGACAACA
 CAGTGCCAGGGAGCCAGAGGAGCGTGGTCTGATACAGTGGAAAGCTGGGGCTCATGCCAACAGTGACAT
 GTCTTCCAGCCTCAAGAGCTACGATTTCCCATGGGATGGGCATAGTAAAAAGAATTACCTTTCTGAAA
 TACATTCTATCTGCCAGTCTTCAAAGGATTTCTTCAAAGTCAAAGATCAGATTGCAATCCAGAAG
 AACTCCAGAAAATACAGAACTGCATCTGTGTGCCAAGGTC

ACGCGTACGCGGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC211657 representing NM_005847
 Red=Cloning site Green=Tags(s)

MRAQEDLEGRQHEHTRDPSTPLPTEPKFDMLYKIEDVPPWYLCILLGFQHYLTCFSGTIAVPFLLAEL
 CVGHDQHMVSQLIGTIFTCVGITTLIQTIVGIRLPLFQASAFALVPAKAILALERWKCPPEEEIYGNWS
 LPLNTSHIWHPRIREVQGAIMVSSVVEVIGLLGLPGALLNYIGPLTVPTVSLIGLSVFQAAGDRAGSH
 WGISACSILLIILFSQYLRNLTFLLPVYRWGKGLTLLRIQIFKMFPIMLAIMTVWLLCYVLTLDVLPD
 PKAYGFQARTDARGDIMAIAPWIRIPYPCQWGLPTVTAAVLGMFSATLAGIIESIGDYACARLAGAPP
 PPVHAINRGIFTEGICCIAGLLGTGNGSTSSSPNIGVLGITKVGSRVVQYGAIMLVLTIGKFTALF
 ASLPDPILGGMFCTLFMITAVGLSNLQFVDMNSRNLVFLGFSMFFGLTLPNYLESNPGAINTGILEVD
 QILIVLLTTEMFVGGCLAFILDNTVPGSPPEERGLIQWKAGAHANSDMSSSLKSYDFPIGMGIVKRITFLK
 YIPICPVFKGFSSSSKDQIAIPEDTPENTETASVCTKV

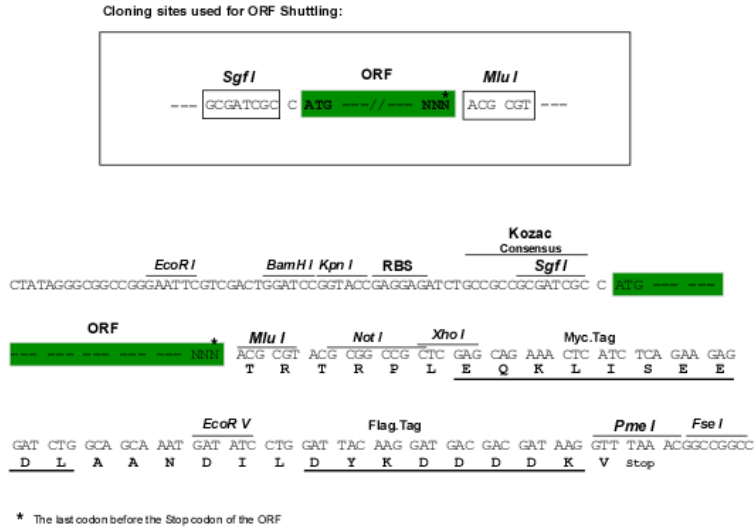
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mk8069_a08.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_005847

ORF Size: 1794 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_005847.5](#)

RefSeq Size: 2326 bp

RefSeq ORF: 1797 bp

Locus ID: 9963

UniProt ID: [Q9UHI7](#)

Cytogenetics: 5q31.2

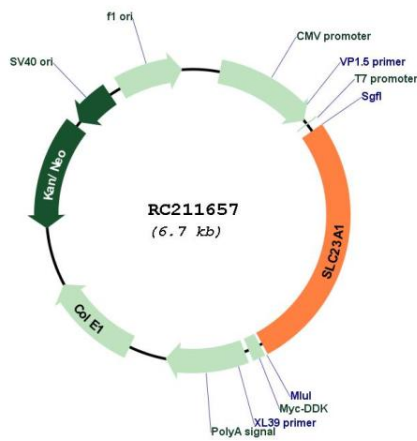
Domains: xan_ur_permease

Protein Families: Transmembrane

MW: 64.6 kDa

Gene Summary: The absorption of vitamin C into the body and its distribution to organs requires two sodium-dependent vitamin C transporters. This gene encodes one of the two transporters. The encoded protein is active in bulk vitamin C transport involving epithelial surfaces. Previously, this gene had an official symbol of SLC23A2. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2008]

Product images:



Circular map for RC211657