

Product datasheet for **RR210127**

Slc23a1 (NM_017315) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc23a1 (NM_017315) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc23a1
Synonyms:	SVCT1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR210127 representing NM_017315
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGAAAGCTCAGGAGGACCCCGGAGCTCAAAGCAGCATGAATGCCAGATTACAGAGGACTTCCACCA
 GGGACCAGCAGGCACCTTTGCCCGCGGAGCCCAAGTTTGACATGTTGTACAAGATTGAGGACGTGCCACC
 ATGGTACCTGTGTATCCTGCTGGCTTCCAGCATTACCTGACATGCTTCAGTGGTACCATTGCTGTGCC
 TTCCTCTGGCTGAGGCGCTGTGTGGGCCGCGACCAGCACATGATCAGTCAGCTCATTGGTACCATCT
 TCACCTGCGTGGGTATCACCCTCTCATTAGACTACAGTGGGCATCCGGCTGCCGCTGTTCCAGGCCAG
 TGCCTTTGCGTTTCTGGTCCAGCCAAGGCTATCCTGGCCTTGAGAGGTTGAAGTGTCTCCAGAAGAG
 GAGATCTACGGTAACCTGGAGTATGCCCCTGAACACCTCTCATATCTGGCATCCTCGGATTCGGGAGGTCC
 AGGGTGAATCATGGTGTCCAGCGTGGTAGAGGTGGTATTGGGCTGTTGGGGCTGCCTGGGGCCCTGCT
 CAGCTACATTGGACCTCTCAGCTACCCCCACTGTCTCCCTTATCGGTCTCTGTGTTTCCAAGCTGCT
 GGCAGCCGAGCTGGCTCCCATTTGGGGCATTTTCGGCTTGCTCCATTCTACTGATCGTCTGTCTCCAGT
 ATCTACGCAACCTCACCTTCTGTGCTGTTTACCGATGGGGCAAGGCTTACTCTCTCCGCATCCA
 GATCTTTAAGATGTTTCCGATCGTGTGGCCATCATGACCGTGTGGTACTCTGCTATGTGCTGACTCTG
 ACAGACGTGTGCCCGCAGATCCACAGTCTACGGTTTCCAGGCTCGAAGTATGCCCCAGGGGACATCA
 TGGCTATCTCTCCCTGGATCCGGATCCCTACCATGTCAATGGGGCCTACCCACAGTGACCGTGGCTGC
 AGTTCTGGGAATGTTTCCAGCGCACACTGGCGGGCATCATCGAGTCCATCGGTGATTACTATGCTGCGCC
 CGGTTGGCTGGAGCACCCCTCCAGTCCATGCTATCAACAGGGGATTTTACCAGAGGCGTCTGCT
 GCATCATCGCTGGGCTACTGGGCACAGGCAACGGGTCCACCTCTTCCAGCCCCAACATCGGGGTCCTAGG
 GATTACCAAGGTGGGCAGCCGAAGAGTCTGAGTATGGTGCAGGTATCATGCTAATCCTGGGGGCCATT
 GGCAAAATTCAGCTCTCTTCGCTCACTGCCGACCCATCCTGGGAGGGATGTTCTGCACTCTTTTCG
 GTATGATCACCGCTGTGGGACTGTCCAATCTGCAGTTTGTGGACATGAACTCTCCCGCAACCTCTTTGT
 ATTGGGATTCTCCATGTTCTTCGGCTCACGCTACCCAACCTACCTGGATTCCAACCCAGGTGCCATCAAC
 ACAGGCGTTCTGAAGTGGATCAGATCTAACTGTGCTGCTGACCACAGAGATGTTTGTGGTGGCTGTC
 TTGCTTTCATACTGGACAACACAGTACCAGGGAGCCAGAGGAAAGAGGTCTGATACAGTGGAAAGCCGG
 GGCACACGCCAACAGTGAGACGCTGGCCAGTCTCAAGAGCTACGATTTCCCGTTCGGGATGGGCATGGTA
 AAAAGGACCACCTTTTTAGATACATCCCATCTGCCAGTCTTCAGAGGATTCTTAAGACAGAAAATC
 AGCCTGCAGTTCTAGAAGACGCTCCAGACAACACAGAACTGGGTCTGTGTGTACCAAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR210127 representing NM_017315
 Red=Cloning site Green=Tags(s)

MKAQEDPGSSKQHECPDSAGTSTRDQQAPLPAEPKFDMLYKIEDVPPWYLCILLGFQHYLTCSGTIAVP
 FLLAEALCVGRDQHMSQLIGTIFTVCVITTLIQTTVGIRLPLFQASAFALVPAKAILALERWKCPPEE
 EIYGNWSMPLNTSHIWHPRIREVQGAIMVSSVVEVIGLLGLPGALLSYIGPLTVPTVSLIGLSVFQAA
 GDRAGSHWGISACSILLIVLFSQYLRNLTFLPVYRWGKGLTLFRIQIFKMFPIVLAIMTVWLLCYVLT
 TDVLPADPTVYGFQARTDARGDIMAI SPWIRIPYPCQWGLPTVTVAAVLGMFSATLAGIIESIGDYYACA
 RLAGAPPPPVHAINRGIFTEGVCCIIAGLLGTNGSTSSPNIGVLGITKVGSRVVQYAGIMLILGAI
 GKFTALFASLPDILGGMFCTLFGMITAVGLSNLQFVDMNSSRNLFVLGFSMFFGLTLPNYLDSNPGAIN
 TGVPEVDQILTVLLTTEMFVGGCLAFILDNTVPGSPEERGLIQWKAGAHANSETLASLSYDFPFMGGMV
 KRITFFRYIPICPVFRGFSKTENQPAVLEDAPDNTETGVSCTKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_017315

ORF Size: 1812 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_017315.2](#), [NP_059011.1](#)

RefSeq Size: 2309 bp

RefSeq ORF: 1815 bp

Locus ID: 50621

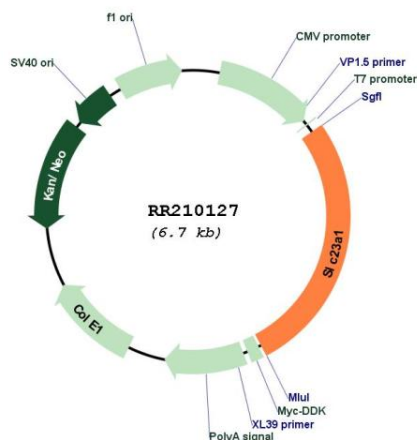
UniProt ID: [Q9WTW7](#)

Cytogenetics: 18p11

MW: 65.3 kDa

Gene Summary: mediates concentrative, high-affinity L-ascorbic acid transport which is driven by the Na⁺ electrochemical gradient [RGD, Feb 2006]

Product images:



Circular map for RR210127