

Product datasheet for **MR209349**

Slc23a1 (NM_011397) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc23a1 (NM_011397) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc23a1
Synonyms:	D18Ucla2; Slc23a2; SVCT1; YSPL3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR209349 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAAAACTCCGAGGACCCCGGGAGCCAAAGCAGCATGAGGTCGTGGATTACAGAGGGACTTCCACCA
 GGGACCGGCAGGCACCTTTGCCACGGAGCCCAAGTTTGACATGTTGTACAAGATTGAGGATGTGCCACC
 ATGGTACCTGTGCATCCTGCTGGCTTCCAGCATTACCTGACGTGCTTCACTGGCACCATCGCCGTGCC
 TTCCTCTGGCTGAGGCCTGTGTGTGGCCGTGACCAGCACATGGTCAGTCAGCTCATTGGTACCATCT
 TCACCTGTGTGGGTATCACCCTCTCATCCAGACTACAGTGGGCATCCGGCTGCCGTTGTTCCAGGCCAG
 TGCCTTTGCCCTTCTGGTCCAGCCAAGTCAATCCTGCGCTTGGAGAGGTGGAAGTGTCTTCCAGAAAGAA
 GAGATCTACGGTAACTGGAGTATGCCTCTCAACACCTCCCATATCTGGCATCCTCGTATCCGGGAGGTCC
 AGGGTGAATCATGGTGTCCAGTATGGTGGAGGTGGTATTGGGCTGATGGGGCTGCCTGGGGCCCTGCT
 CAGCTACATTGGGCTCTCACCCTCACCCCACTGTCTCCCTATTGGGCTCTCTGTTTTCCAAGCTGCT
 GGTGACCGAGCTGGCTCTCATTGGGGTATTTCCGGCTTGCTCCATTCTCCTGATAGCTTGTCTCCCACT
 ATCTGCGCAACCTCACCTTCTGTTACCTGTTTACCGATGGGGCAAGGGTCTCACTCTCTCCGAGTCCA
 GATCTTTAAGATGTTCCGATTGTGCTGGCCATCATGACCGTGTGGCTGCTCTGCTACGTGTTGACCCTG
 ACAGATGTGCTGCCCGCAGACCCACAGTCTATGGCTTCCAGGCTCGAAGTATGCCCGAGGGGACATCA
 TGGCTATCTCCCTGGATCCGAATCCCCTATCCATGTCACTGGGGCCTACCCACAGTACTGTGGCTGC
 AGTTCTGGGGATGTTCACTGCCACACTGGCGGGCATCATGAGTCCATCGGTGATTACTATGCCTGTGCC
 CGGTTGGCTGGAGCACCACCCCTCCAGTACATGCCATCAACAGGGGAATTTTCACTGAAGGCATCTGCT
 GCATTATCGCTGGGCTACTGGGCACAGGCAACGGGTCCACCTATCCAGTCCCAACATGGGGTCTTAGG
 GATTACCAAGGTGGGCAGCCGAAGAGTCTGTCAGTACGGTGCAGGTATCATGCTAATCCTGGGTGCCATT
 GGCAAATTCACAGCTCTCTTTCCTCACTGCCAGACCCATCCTGGGAGGAATGTTCTGCACTCTTTTTG
 GTATGACTACTGCTGTGGGACTGTCCAATCTGCAGTTTGTGGACATGAACTCTTCTCGAACCTCTTTGT
 ATTGGGATTCTCCATGTTCTTTGGCCTCACACTACCCAACTACCTGGATTCCAACCCAGGTGCTATCAAC
 ACAGGCATTCTGAAGTGGATCAGATCTAACTGTGCTGCTGACCACAGAGATGTTTGTGGCGGGTGCC
 TTGCTTTCATACTGGACAACACAGTCCAGGGAGCCAGAGGAAAGAGGCCTGATACAGTGAAGGCTGG
 AGCCACGCCAACAGTGAAGCTCAGCCAGTCTCAAGAGCTACGATTTCCCTTTGGGATGGGCATGGTA
 AAAAGGACCACCTTTTTTCCAGATACATCCCCTCTGCCAGTCTTCCAGAGGATTTTCTAAAAGACACAAA
 ATCAGCCTCCAGTCTAGAAGACTCCAGACAATATAGAACTGGGTCTGTGTGTACCAAGGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR209349 protein sequence
 Red=Cloning site Green=Tags(s)

MKTPEDPGSPKQHEVVDSAGTSTRDRQAPLPTEPKFDMLYKIEDVPPWYLCILLGFQHYLTCSGTIAVP
 FLLAEALCVGRDQHMVSQIIGTIFTCVGIITLIQTTVGIRLPLFQASAFALVPAKSILALERWKCPSEE
 EIYGNWSMPLNTSHIWHPRIREVQGAIMVSSMVEVVIGLMGLPGALLSYIGPLTVTPTVSLIGLSVQAA
 GDRAGSHWGISACSILLIVLFSQYLRNLTFLLPVYRWGKGLTLFRVQIFKMFPIVLAIMTVWLLCYVLT
 TDVLPADPTVYGFQARTDARGDIMAI SPWIRIPYPCQWGLPTVTVAAVLGMFSATLAGIIESIGDYACA
 RLAGAPPPVHAINRGIFTEGICCIAGLLGTNGSTSSSPNIGVLGITKVGSRVVQYAGIMLILGAI
 GKFTALFASLPDPIILGGMFCTLFGMITAVGLSNLQFVDMN SSRNLFVLFGFSMFFGLTLPNYLDSNPGAIN
 TGIPEVDQILTVLLTTEMFVGGCLAFILDNTVPGSPEERGLIQWKAGAHANSETSASLSKSYDFPFMGGMV
 KRITFFRYIPICPVFRGFSKKTQNPVLEDTPDNIETGSVCTKV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_011397

ORF Size: 1818 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_011397.4](#)

RefSeq Size: 3009 bp

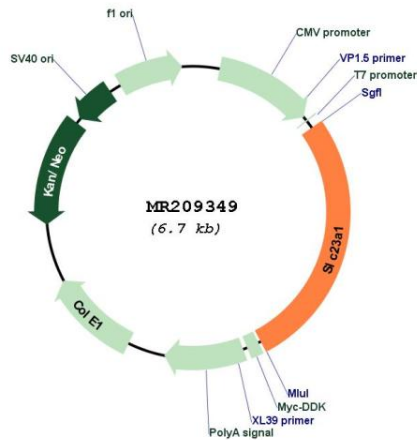
RefSeq ORF: 1818 bp

Locus ID: 20522

UniProt ID: [Q9Z2J0](#)

Cytogenetics: 18 19.17 cM
MW: 65.6 kDa
Gene Summary: Sodium/ascorbate cotransporter. Mediates electrogenic uptake of vitamin C, with a stoichiometry of 2 Na(+) for each ascorbate (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR209349