

Product datasheet for **RR216852**

Slc3a2 (NM_001271089) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc3a2 (NM_001271089) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc3a2
Synonyms:	Mdu1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR216852 representing NM_001271089
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGAGCCAGGACACCGAAGTGGACATGAAAGATGTGGAGCTGAACGAGCTGGAACCGGAGAAGCAGCCTA
 TGAATGCAGCGGACGGGGCGGCAGCCGGGAGAAGAACGGTCTGGTGAAGATTAAGTGGCCGAAGACGA
 GGCGGAAGCCGGGTCAAGTTCACAGGCTTATCCAAGGAGGAGCTATTGAAGGTAGCTGGCAGCCGGGC
 TGGGTGCGCACCCGCTGGGCGCTGCTGCTCTTCTGGCTCGGTTGGCTGGGTATGCTGGCGGGCGCCG
 TGGTTATCATCGTTCGGGCGCCAGCTGCCGTGAGCTGCCGGTACAGAGATGGTGGCACAAGGGCGCCCT
 CTACCGCATCGGCGACCTTCAGGCCTTCGTAGGCCGGAAGCGAGAGGCATAGCTGGTCTGAAGAACCAT
 CTGGAGTACTTGAGCACCTGAAGGTGAAGGGCCTAGTTTGGGCCAAATCACAAGAACCAGAAGGATG
 AAGTCAATGAAACCGACTTGAAACAGATTGATCCCGATTTAGGCTCCCAGGAAGATTTAAAGACCTTCT
 ACAAAGTGCCAAAGAAAAGAGCATTACATCATTTTGGACCTCACTCCAACTATAAGGGCCAGAATGCA
 TGGTTCCTCCCTCCTCAGGCTGACATTGTAGCCACCAAAATGAAGGAGGCTCTGAGTTCTTGGTTGCAGG
 ACGGTGTGGATGGTTTCAAGTTCGGGATGTGGGAAAGCTGGCGAATGCATCCTTGTACTTGGCTGAGTG
 GCAGAATACCAAGAAGTTCAGTGAAGACAGGCTTTTATTGACAGGACCGCGTCTCTGACCTGCAA
 CAAATTGTCAACATACTGAATCCACCAGCGATCTGCTGCTGACCAGCTCATACCTGTCACAGCCGTTT
 TCACTGGGAGCATGCAGAACTCCTAGTGATTAAGTATTTGAATGCCACTGGCAGCCGCTGGTGCAGCTG
 GAGTGTGTCGACGAGGACTCCTGACATCCTTATACCGGCTCAGTTTCTCCGACTCTACCAGCTGCTG
 CTCTTCACTGTCAGGAACTCCTGTTTTCAGCTATGGGATGAGCTTGGCCTTCAGGCAGTTGCCCTTC
 CTGGACGCCTATGGAGGCTCCATTTCATGCTGTGAATGAGCTAGCAACTCCAAACCTCAAGTCTCTG
 AAGCCTCAACATGACAGTGAAGGGCCAAAATGAAGACCCCGGCTCCCTCCTCACCAGTTCGGGCGACTG
 AGTGACCTCCGTGGTAAGGAGCGCTCTCTGTTACACGGTGACTTTGATGCACTGTCTTCTCATCTGGCC
 TCTTCTCTACGTCGGCCACTGGGACCAGAATGAGCGTTACCTGGTGGTCTCAACTCCAGGATGTGGG
 CCTGTCAGCCAGGATAGGAGCCTCAACCTCCCTGCTGGCATAAGCCTGCCAGCCAGTGCTAACCTTTTG
 CTTAGTACTGACAGCACCCGGCTAAGCCGTGAGGAGGGCACCTCCCTGAGCCTGGAAAACCTGAGCCTGA
 ATCCTTATGAGGGCTTGTGTTACAGTTCCTTTTGTGGCC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR216852 representing NM_001271089
 Red=Cloning site Green=Tags(s)

MSQDTEVDMKDVELNELEPEKQPMNAADGAAAGEKNGLVKIKVAEDEAEAGVKFTGLSKEELLKVGASPG
 WVRTRWALLLLFWLWLGMLAGAVVIVRAPRCREL PVQRWWHKGALYRIGDLQAFVGPPEARGLKLNH
 LEYLSTLKVKGLVLPPIHKNQKDEVNETDLKQIDPDLGSQEDFKDLLQSAKKSIHIILDITPNYKQNA
 WFLPPQADIVATKMKEALSSWLQDGVDFQVRDVGKLANASLYLAEWQNI TNKFNSEDRLLIAGTASSDLQ
 QIVNILESTSDLLL TSSYL SQPVFTGEHAELLVIKYLNATGSRWCSWSVSQAGLL TSIIPAQFLRLYQLL
 LFTLPGTPVFSYGDELGLQAVALPGQMEAPFMLWNESSNSQTSSPVSLNMTVKGNEDPGSLLTQFRRL
 SDLRGKERSLLHGDFDALSSSSGLFSYVRHWDQNERYL VVLNFQDVGLSARV GASNLPAGISLPASANLL
 LSTDSTRLSREEGTSLLENLSLNPYEGLLLQFPFVA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001271089

ORF Size: 1581 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_001271089.2](#), [NP_001258018.1](#)

RefSeq Size: 1854 bp

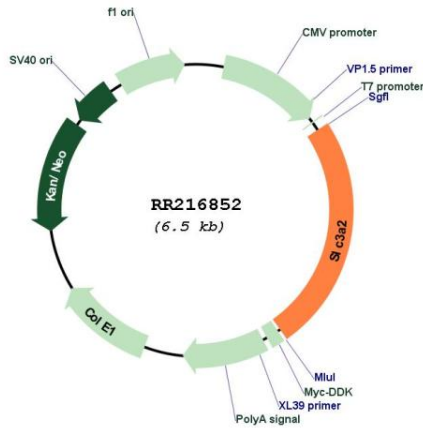
RefSeq ORF: 1584 bp

Locus ID: 50567

UniProt ID: [Q794F9](#)

Cytogenetics: 1q43
 MW: 58.1 kDa
 Gene Summary: Na⁺-independent neutral amino acid transporter; may have a role in cell growth and activation [RGD, Feb 2006]

Product images:



Circular map for RR216852