

Product datasheet for **RR208165**

Slc38a3 (NM_145776) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc38a3 (NM_145776) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc38a3
Synonyms:	Nat1; Sn1; Snat3
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR208165 representing NM_145776
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGC**C

ATGGAGATACCCCGACAGACAGAGATGGTGGAGCTGGTGCCCAATGGCAAACACCTGGAGGGGCTTCTAC
 CAGTGGGCATGCCACGGCAGACACCCAGAGGGCTGAAGACGCCCAACACTGTGGAGAGGGCAAGGGCTT
 CCTTCAGCAAAGCTCCAGCAAGGAGCCACACTTCACCGATTTGAGGGGAAGACATCGTTTGGGATGTCG
 GTGTTCAATCTCAGAACGCCATCATGGGCAGTGGCATCCTGGGGCTCGCCTATGCCATGGCCAATACGG
 GCATCATCCTCTTCTGTTCTGCTTACGGCGTTGCCCTGTTGTCTAGCTACTCCATTACCTGCTCCT
 CAAGTCTTCTGGGATTGTGGGCATCCGTGCCTATGAGCAGTTGGGCTACCGTGCCTTTGGGACCCAGGA
 AAGCTGGCAGCAGCCTTGCCATCACGCTTCAGAACATTGGAGCCATGTCCAGCTATCTGTACATCATCA
 AGTCTGAAGTGCCTCTTGTATACAGACCTTCTGAATCTGGAGAAGCCAACCCCGGTGTGTACATGGA
 TGGCAACTACCTGTGATCCTGGTATCCGTATCATCATCTTCTGCCCTGGCACTAATGCGACAGCTTGGC
 TACCTGGGCTACTCCAGTGGCTTCTCTCTCAGCTGCATGGTGTTCTTCTTGATCGAGTCATCTACAAGA
 AGTTCCAAGTGCCTTGCCCACTGGCACACAACCTTGGTCAATGCCACAGGTAACCTCAGCCACATGGTGGT
 GGTGGAGGAGAAGTCGCAGCTGCAGAGCGAACCTGACACTGCTGAAGCCTTCTGCACCCCAAGCTACTTC
 ACACTCAACTCACAGACGGCATACACCATCCCCATCATGGCCTTCGCCTTTGTCTGCCACCCTGAGGTGC
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 TGTCATGTATGTCATGTACTTCTGGTGCCCTTTCGGCTACCTCACCTTCTATGACGGGTGGAGTCA
 GAGCTGCTGCACACCTACAGCAAGGTGGACCCATTGATGTGCTGATCTTGTGTGTGCGCGTGGCCGTGC
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 TCAGAACCAGGAGTTCAGCTGGTTGCGGCACGTGCTTATTGCCACCGGCTCCTTACTTGATCAACTTG
 CTGGTTATCTTCCCCCAACATCTTGGGCATATTGGGATCATTGGTGTACATCTGCTCCGTGCCTCA
 TCTTCATCTTCCCTGCCATCTTCTACTTCCGAATCATGCCCACTGAGAAGGAGCCTGTGAGATCCACCC
 CAAAATCCTGGCCCTTTGCTTTGCTGCGGTTGGCTTCTTGTGATGACCATGAGTTTGAGTTTCATCATC
 ACTGACTGGGTCTCTGGGACCAGCCAACATGGAGGAAACCAT

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR208165 representing NM_145776
 Red=Cloning site Green=Tags(s)

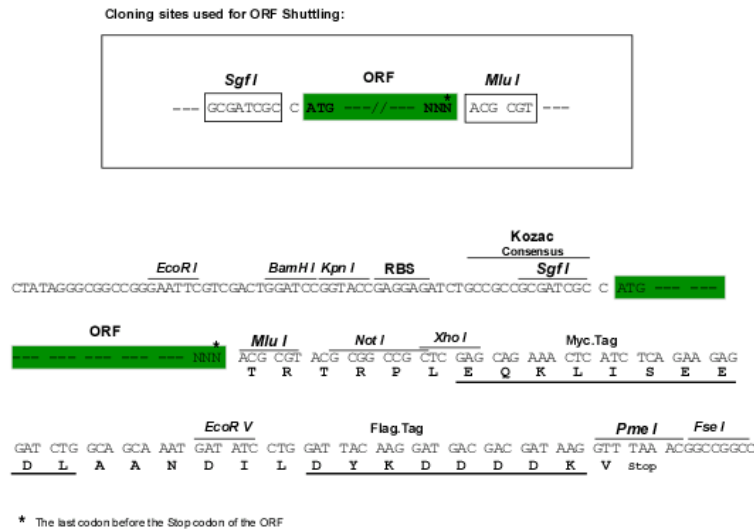
MEIPRQTEMVELVPNGKHLEGLLPVGMPTADTQRAEDAQHCGEKGFLQQSSSKEPHFTDFEGKTSFGMS
 VFNL SNAIMGSGILGLAYAMANTGIILFLFLTAVALLSSYSIHLLKSSGIVGIRAYEQLGYRAFETPG
 KLAALAITLQNI GAMS SYLYI IKSELPLVIQTFLNLEKPTPVWYMDGNLVILVSVIIILPLALMRQLG
 YLGYS S GFSLS CMVFFLI AVIYK KFQVPCPLAHNLVNATGNFSHMVVVEEKS Q LQSEPD TAEAFCTPSYF
 TLNSQTAYTIPIMAFAFVCHPEVLPIYTELKDPSKRKMQHISNLSIAVMYMYFLAALFGYLTfydGVES
 ELLHTYSKVPDFDVLILCVRVAVLIAVTLTPIVLFPVRRAIQQMLFQNQEF SWLRHVL IATGLLTCINL
 LVIFAPNILGIFGIIGATSAPCLIFIPAIIFYFRIMPTEKEPVRSTPKILALCFAAVGFLMTMSLSFII
 TDWVSGTSQHGGNH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_145776

ORF Size: 1512 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_145776.1](#), [NP_665719.1](#)

RefSeq Size: 2354 bp

RefSeq ORF: 1515 bp

Locus ID: 252919

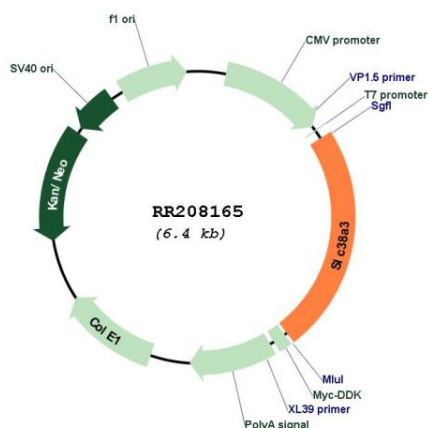
UniProt ID: [Q9JHZ9](#)

Cytogenetics: 8q32

MW: 55.6 kDa

Gene Summary: mediates glutamine efflux and uptake [RGD, Feb 2006]

Product images:



Circular map for RR208165