

Product datasheet for **RR201903**

Slc39a8 (NM_001011952) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a8 (NM_001011952) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc39a8
Synonyms:	MGC108852
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR201903 representing NM_001011952
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGGCTCCGGGCCGGGCAGTGGCCGGGCTGCTGCTACTGGCGGCCACCGCCTGGGACGCCCTCGGAGG
 GGCCGGAGCTCGCCTTCACTGAGGATGTGCTGAGAGTGTTCGGCGCCAACCAGAGCCTGTGCGCCGCGCA
 GCTGGGGCGCCTGCTGGAGCGCCTGGGGCTGCACCCAGCAGGGAGCGCTGGAGCTGGGCCAGCTCCAC
 TTCAACCAGTGTCTGTCAGCGGAAGACATCTTTTCTTTCATGGTTTCTCAAACGTACCCAGATAACCA
 GCTCGAATTCCTGCCATCTGCCCTGCGATCTTACAGCAGCTGAACTTTCATCCCTGTGAGGATCCACA
 GAAGCACAGCGTAAAGCCAGTTTTTCCGAAGTCTGGGGCTATGGATTCTTGTGAGTACAATCATCAAT
 TTGGCCTCTCTCCTGGGATTGATTTAAACCCCTTGATAAAGAAGTCGATTTCCCAAGATTTTGACTT
 ATTTTGTGGGGCTGGCTATTGGGACCTTTTCTCAAATGCCATTTCCAGCTTATCCAGAGGCATTTGG
 ATTTAATCCAAAATTGACAATTATGTTGAAAAGGCAGTTGCTGTGTTTGGTGGATTTTACATGCTTTTC
 TTTGTTGAAAGAACACTTAAGATGCTACTGAAAACGTACGGCCAGAATGACCATACTCACTTCAGGAATG
 ATGACTTCGGTTCTAAAGAAAAAGCCATCAACCCAAAACGTTGCCATTACCTCCTGTCAATGGAGTGAC
 ATGCTATGCCAACCCCGCTGCTACTGAGCCTAATGGACACATCCACTTCGACACTGTGAGTGTGTGTC
 CTGCAGGATGGAAAAGCAGAGTCAAGTTCATGCACCTGTTTGAAGGGGCCAAAACGTGAGAAAATAGGAA
 CGATTGCTGGATGATCACGCTCTGTGATGCCCTTCAAAATTCATTGATGGCTTGGCGATCGGGGCATC
 CTATACTGTCTCTTCTCAAGGACTCAGTACTTCCATAGCGATCCTGTGTGAGGAGTTTCTCATGAG
 TTAGGGGACTTTGTGATCTTGTCAATGCAGGGATGAGCACTCGGCAAGCCTTGTGTTTAACTTCTCT
 CTGCATGTTCTGCTACGTTGGGCTTGTTCGCGCATTTTGGTGGCAACAACCTTGTCCAAATATTAT
 ATTTGCACCTTGTGGAGGCATGTTCTTACATTTCTCTGGCAGATATGTTTCCAGAGATGAACGACATG
 CTGAGAGAAAAAGTAACTGGAAGACAAACGGACTTACCTTCTCATGATCCAGAACGCAGGATGTTAA
 CCGGATCACTGCCATCTTGCTCATCACCTGTACGCAGGGGACATCGAATTGCAGCCGGATCACTGCC
 ATCTTGCTCATCACCTTGTACGCAGGGGACATCGAATTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR201903 representing NM_001011952
 Red=Cloning site Green=Tags(s)

MAPGRAVAGLLLLAATGLGRPSEGPELAFTEVLRVFGANQSLSAAQLGRLLERLGAAPQQGALELQQLH
 FNQCLSAEDIFSLHGFSNVTQITSSNFTAICPAILQQLNFHPCEDPQKHSVKPSFSEVWGYGFLSVTIIN
 LASLLGLILTPLIKKSYFPKILTYFVGLAIGTLFSNAIFQLIPEAFGNPKIDNYVEKAVAVFGGFYMLF
 FVERTLKMLLKTYGQNDHHTFRNDDFGSKEKAHQPKTLPLPPVNGVTCYANPAVTEPNHGHIFDTSVVS
 LQDGKAESSSCTCLKGPKLSEIGTIAWMITLCDALHNFIDGLAIGASYTLLQLGLSTSIAILCEEFPH
 LGDFVILLNAGMSTRQALLFNLSACSCYVGLAFGILVGNFAPNIIIFALAGMFLYISLADMFPENNDM
 LREKVTGRQTDFTFFMIQNAAGMLTGFTAILLITLYAGDIELQPDLSLPCSSPCTQGTSN

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

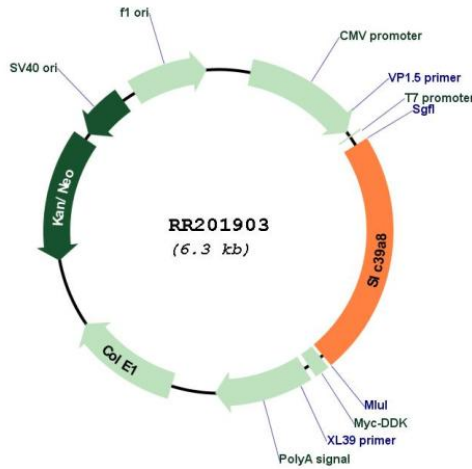
Restriction Sites:

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN:

NM_001011952

ORF Size:

1386 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:	<ol style="list-style-type: none">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 Size:	3097 bp
RefSeq ORF:	1389 bp
Locus ID:	295455
UniProt ID:	Q5FVQ0
Cytogenetics:	2q43
MW:	50.2 kDa
Gene Summary:	Acts as a manganese and zinc influx transporter. Plays a role in manganese reabsorption in the proximal tubule of the kidney and in manganese uptake into the brain.[UniProtKB/Swiss-Prot Function]