

Product datasheet for **RR200752**

Slc39a4 (NM_001077669) Rat Tagged ORF Clone

Product data:

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|--------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | Slc39a4 (NM_001077669) Rat Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | Slc39a4 |
| Synonyms: | MGC156705 |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| Cell Selection: | Neomycin |



[View online »](#)

ORF Nucleotide
Sequence:

>RR200752 representing NM_001077669
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCTCCCAAAGTCGCTCACACAGGGGCTCTTGTGGCGATGCTGGTGGGCACAGCAGCAATGGTCCAGC
 CCTATCACCTGCTCAGCCTACTCACCTCGGGCCAGGGTGTCTGGATCGAACGGCACTGGACGGCCTGTT
 AAATACGCTGGTGGCCCGTGTGCACTGCACCGACGGCCGTGTGAAAAGTGTCTGTCTGTGGAGACTGCC
 TTGGCTCTAGGCAAACCTGATAAGCCACAGCTTCCCCAGAATCAGTCCTGGAGTCCAGATACATTA
 ACCTCAGTGCCGCGCTGCCCTTACCTCAACGACCCAGAGAAAACATGCAAGGACATCCGAGCTGGCCT
 CTTGGCCTCTCATGTGGACGATTACCTGGCCAACTGGAGAGTCCAGAGGCCATGACCCTGGGTCTGAGC
 CAGCTACTGCAGAAGATTGAGGCCCATGATGCCAGCCAACCCACAGGGAGGAGACCTGTGTAGATGTTCC
 CCAACTGCTGGAGGAGCTGAGGAAGCAGGGTTTCCAGAAGCCCTGGCCTGGTCTTGACAGCCTTGCT
 GGATCACGTCCTTAATGGATCCTGCTTCCAAGGCCTGCCTAGCCCTCAGTACTTTGTGGACTTTGTGTT
 AGGCAACTCAGTAGTAAGCCTCGCAATATCACGCTGCCCGAATTGGAGGATTTGATGCATCACCTGGGG
 TGGGTGGAGAGGATCACAGTGACCATGGTGACCATGTTGACCACAGTCATCTGGACAGGGGAGCCAA
 CCAAGACTCTGAGCTCCATGCTACCCACAACAGCAGCTCCAGTGTATGGGACACGCTGTGCCCTGAGTGCC
 AAAGATGTAATGGCTGTGTATGGGCTATCTGAAGAGGCCGGGGTGGAGCCCTCAGGCTGGGCCAACTGA
 CCCCTGCCTTGGTCCAGCAGCAGCTAAGTGAAGCCTGCAGCTCCAGTCCCATTATCCATGTACAGGACCA
 GCTCAGTCAAGCAGAGAGGTATCTGTATGGCTCTCTGGCCACCCTGCTCATCTGCCTCTGCGCTGTGTT
 GGTCTTCTGCTGCTGACCTGTGCCAAATGCAGCACAGCCACCCACTACATCATGCAGACCTTCTTAAGCT
 TGGCTGTGGGTGCACTCACAGCGATGCTCTCCTGCACCTGATACCCAAGGTGCTGGGATTGCACACGCA
 TAGTGGAGAGGTTCACTCCACGAGGAGGAGAGCATTGGTGGACAGTCCACCTGGCGCCTGCTGGCTGTA
 CTTGGAGGCTTCTACATTTTCTCCTGTTTGGAGGCTTCTTCAACCTCTTATTGCCAGAGACCAGGATC
 ATGAGAAAAGATGGGCCTGTAGCCACGGTGGGCACAGCCATGGAATATCACTGCAGCTATCACCCAGCAA
 TCTCCGGCAATCCAAACAGCCCATGAGAGCTCTCGCTCAGACTTGGTGACAGAGGAGACCCCGAACTA
 CTGAACCCAGACACCCGGCGACTGAGAGCAGAGCTGAGAATGTTGCCCTATCTGATCACACTGGGTGACG
 CCGTGCACAACCTTGTGATGGGCTCGCTGTGGGCGCAGCCTTCTCATCCACATGGAAGACTGGGCTGGC
 CACCTCATTGGCAGTGTCTGCCATGAGCTGCCTCACGAACTGGGGACTTTGCTGCTCTGCTGCATGCC
 GGGCTGACTGTGAAACGTGCGCTTCTGCTGAATCTGGCCTCAGCGCTCACAGCATTGCTGGCCTCTACG
 TGGCTCTAGCAGTCGGAGTAGGGCAGGAGGGCGAGACTTGGATTCTGGCGGTAGCCACTGGCCTCTTCT
 TTACGTGGCGCTCTGTGACATGCTCCCAGCCATGATGAATGTGCGGGACCAGCGGCCCTGGCTTCTTTTC
 CTGCTCCACAACGTGGGTCTGCTGGGCGCTGGACCATCTGCTGCTGCTGCTATTGTACGAAGACAGCA
 TCACCTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence: >RR200752 representing NM_001077669
 Red=Cloning site Green=Tags(s)

MLPKSLTQGLLLAMLVGTAAMVQPYHLLSLLTSGQGALDRTALDGLLNTLVARVHCTDGPCEKCLSVETA
 LALGKPKQLAPESVLESRYITYLSAAAALYLNDEPKTKDIRAGLLASHVDDYLAKLESPEAMTLGLS
 QLLQKIEAHDASQPTREETCVDVPQLLEEAEEAGVSRSPGLVLTALLDHVNLGSCFQGLPSPQYFVDFVF
 RQLSSKPRNITLPELEDLMHHLGVGGEDHSDHGDHVDHSHLDREANHQDSELHATHNSSSSVWDTLCLSA
 KDVMAYVGLSEEAGVSPQAWAQLTPALVQQQLSEACSSSPIIHVQDQLSQAERYLYGSLATLLICLCAVF
 GLLLLTCAKCSTATHYIMQTFSLAVGALTGDALLHLIPKVLGLHHTHSGEVHSHEEESIGGQSTWRLLAV
 LGGFYIFFLFESFFNLLPRDQDHEKDGPCSHGGHSHGISLQLSPSNLRQSKQPHESSRDLVTEETPEL
 LNPDRRLRAELRMLPYLITLGDVHNFADGLAVGAAFSSTWKTGLATSLAVFCHELPHELGDFAAALLHA
 GLTVKRALLNLASALTAFLAGLYVALAVGVGEEGETWILAVATGLFLYVALCDMLPAMMNVDRQRPWLLF
 LLHNVGLLGGWTILLLLSLYEDSITF

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

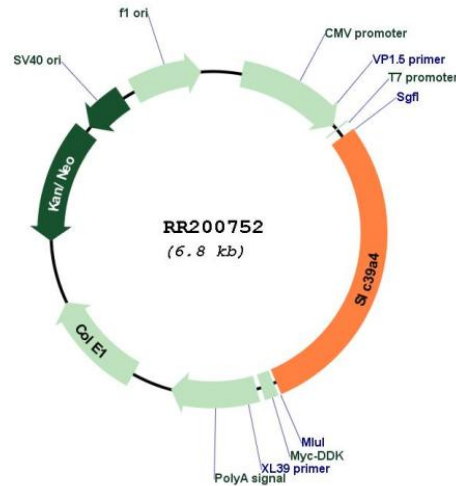
Restriction Sites:

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM_001077669

ORF Size: 1968 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_001077669.1](#), [NP_001071137.1](#)

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|---------------|--|
| RefSeq Size: | 2238 bp |
| RefSeq ORF: | 1971 bp |
| Locus ID: | 300051 |
| UniProt ID: | A0JPN2 |
| Cytogenetics: | 7q34 |
| MW: | 71.1 kDa |
| Gene Summary: | Plays an important role in cellular zinc homeostasis as a zinc transporter. Regulated in response to zinc availability (By similarity).[UniProtKB/Swiss-Prot Function] |