

Product datasheet for **RR200365**

Slc19a1 (NM_017299) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc19a1 (NM_017299) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc19a1
Synonyms:	MTX1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



[View online »](#)

ORF Nucleotide Sequence:

>RR200365 representing NM_017299
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGTGCCCACTGGCCAGGTGGCAGAAAAGCAAGCCTGCGAAGAGCCAGGCAGGACCGAGAAGCTTAAGT
 CCTGGCGATGGCTCGTGTCTACCTCTGCTTCTTTGGCTTCATGGCACAGTTGCGACCTGGGAGAGCTT
 CATCACACCCTACCTCCTGGAACGTAACCTCACCAAGGAGCAGGTGACCAACGAGATCATTCCGATGCTG
 CCCTACTCCCACCTGGCCGTGCTGGTCCCCATCTTCTGCTCACCAGCTACCTACGATACAAGCCAGTCC
 TGGTCTACAGTGCCTGAGCTTCGTGTGCGTGTGGCTGCTGCTCCTGGGACCTCCGTGTCACAT
 GCAGCTCATGGAAGTCTTCTACAGCATCACCATGGCGGCGCATCGCTACTCCTCATATTTCTCC
 CTGGTGCAGCCCTCCCGTACCAGCGCATGGCCAGCTACTCGGGGCCGAGTCTACTGGGCGTCTTCA
 TCAGTCCGTGCTGGCCAGGTGCTGGTACCCTAGGAGGCATCTCCACCTATATGCTCAACTGTATCTC
 CCTGGGCTTCATCTCTTACGCCTGAGCCTCTCCCTTCTCTAAAGCGTCTTAAGCGGAGCCTCTTTTTC
 AACCGGAGCGCACTTGTGCAAGGAGCCTTGCCCTGTGAGCTGGATCAGATGCACCCGGGACCTGGCCGTC
 CAGAGCCCAGGAACTGGAGCGCATGCTGGCACTTGCAGGGACTCCTTCTGGTACGCATGCTAAGCGA
 ACTGGTGAAGAACGTCCGGCAACCACAGCTGCGTCTCTGGTGCCTCTGGTGGTCTTCAACTCGGCAGGC
 TACTACCTGATCACCTACTATGTCCATGCTCTGTGAAAATCACTGACAGCAGACTCAACTACAACGGTG
 CCGTAGATGCCGCTCCACACTTCTGAGCGCCATCACGGCCTTACCAGCGGGCTTCGTGAACATCCGCTG
 GGCTCTGTGGTCAAAGCTGGTTCATCGCGAGTGTATAGCCATCCAGGCTGGCCTGGTTTTCTGTATGTC
 CAGATCCCGGACATCTGGGCTGCTATGTGACCTTCGTGCTTTCCGTGGGGCTACCAGTTCCTGTGTC
 CCATTGCCACTTTTCAGATTGCATCTCCCTGTCTAAAGAGCTCTGTGCATTGGTCTTCGGGATCAACAC
 TTTCTTGGCACTGCGCTTAAGACCTCGATCACACTCGTGGTCTCTGACAAGCGGGTCTGGGCCTCCAA
 GTCCATCAACAGTTCGCGATCTACTTATGTACTTCTGACGCTGTCCATCATCTGCCTGCCTGGGCTG
 GGCTGGACGGCTTGGAGTACTACCGCGTGGTCCGCCACCAGCCGCTGGCCAGGCCAGGCTCTGAGTCC
 CTTGGAGGATTCTGTGCAGGCGATAAGCCTACAGGATGGAGACCTAAGGAGACCGCAGCCCTCGGCACCA
 CAGCTGCTCCAGAGGATGGCAGCGTAGAAGACGGCAGGGCAGACTTGAGAGTCAAGCCAAGGCC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200365 representing NM_017299
 Red=Cloning site Green=Tags(s)

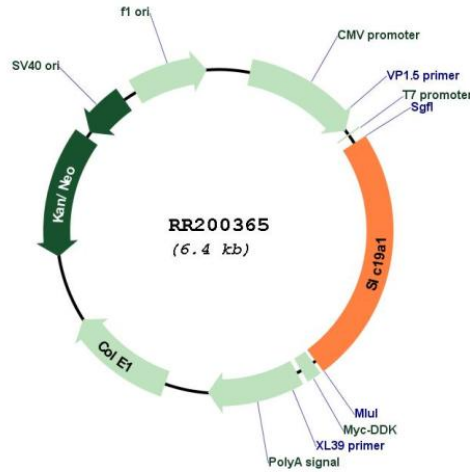
MVPTGQVAEKQACEEPRQDRELKSWRWLVFYLCFFGFMAQLRPGESFITPYLLERNFTKEQVTNEIIPML
 PYSHLAVLVPIFLLTDYLRYKPVVLQCLSFVVCVWLLLLLGTSSVHMQLMEVFYSITMAARIAYSSYIFS
 LVQPSRYQRMASYSRAAVLLGVFISSVLGQVLVTLGGISTYMLNCISLGFILFSLSLFLKRPKRSLFF
 NRSALVQALPCELDQMHPGPRPEPRKLERMLGTCRDSFLVRMLSELVKNVRQPQLRLWCLWWVFNASG
 YYLITYYVHVLWKITDSRLNYNGAVDAASTLLSAITAFAGFVNIRWALWSKLVIASVIAIQAGLVFCMF
 QIPDIWVCYVTFVFRGAYQFLVPIATFQIASSLSKELCALVFGINTFLATALKTSITLVVSDKRGLGLQ
 VHQQFRIYFMYFLTLSIIICLAWAGLDGLRYYRRGRHQPLAQAQALSPLSDSVQATISLQDGLRRPQPSAP
 QLLPEDGSVEDGRADLRVEAKA

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

Plasmid Map:



ACCN: NM_017299

ORF Size: 1536 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_017299.2](#), [NP_058995.2](#)

RefSeq Size: 2436 bp

RefSeq ORF: 1539 bp

Locus ID: 29723

UniProt ID: [Q62866](#)

Cytogenetics: 20p12

MW: 58.1 kDa

Gene Summary: mouse homolog facilitates transport of methotrexate and folic acid [RGD, Feb 2006]