

## Product datasheet for **RR207118**

### Slc22a8 (NM\_031332) Rat Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a8 (NM_031332) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc22a8
Synonyms:	Oat3; OCT3; Roct
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>RR207118 representing NM\_031332  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGACCTTCTCCGAGATTCTGGACCGTGTGGAAGCATGGGCCCTTCCAGTACCTGCATGTGACCTTGC  
 TGGCCCTCCCAGTCTCGGAATAGCCAACCACAACCTTGCTACAGATCTTACAGCCACCACCCTGTCCA  
 CCACTGTCGCCCCCCCCAACGCCTCTATAGGGCCCTGGTACTCCCCTTGACCCAAATGGGAAGCCT  
 GAGAAGTGTCTCCGCTTCGTACATCTGCCAAATGCCAGTCTTCCAATGACACCCAGAGGGCCACCAGC  
 CGTGCTTGGATGGCTGGATCTACAACAGCACCAGAGACACCATTGTGATAGAGTGGGACTTGGTGTGAC  
 CTCCAACAACTGAAGGAGATGGCCAGTCGATCTTCATGGCAGGCATACTGGTTGGAGGACCTGTGATT  
 GGAGAAGTGTGACAGGTTTGGCCGAAGCCTATCCTGACCTGGAGTTATCTCATGCTGGCAGCCAGCG  
 GCTCTGGTGTGCTTCCAGTCCCAGCCTCCCTGTCTATATGATCTCCGATTCTGTGTGGCTGCAGCAT  
 CTCGGGCATTTCTGAGCACCGTTATCTTGAATGTGGAATGGTACCCACCTCGATGCGGGCCATCTCA  
 TCAACATCTATTGGGTACTGCTACACCATTGGTCAGTTCACTCTGTCCGGCCTGGCCTATGCCATTCCTC  
 AGTGGCGCTGGCTACAGTTAACCTCGTCTGCTCCCTTCTTCATCTTCTCCTTGTGTCTGGTGGGTACC  
 AGAGTCCATACGCTGGCTGGTTCTATCTGGAAAATACTCAAAGGCCCTGAAGACTCCAACGGGTGGCT  
 ACCTTCAACGGCAAGAAGGAGGAAGGAAAAAGCTCACCATAGAGGAGCTGAAGTTCAACTTGCAGAAGG  
 ACATCACCTCAGCCAAGTCAAATATGGCTTATCTGACTTGTCCGGGTGCCATCCTTCGTCTGTGAC  
 CTTCTGTCTCTCTGGCCTGGTTTTCTACTGGTTTTGCCTACTACAGTTGGCTATGGGGTAGAAGAA  
 TTTGGAGTCAACATCTACATACTCCAGATTATCTTTGGTGGGGTGACATCCCAGCCAAGTTCATCACAA  
 TCCTCTCCTTAAGTTATCTGGCCGGCGCATCACTCAGAGCTTCTCCTGCTCCTAGCAGGAGGGCCAT  
 TTTGGCCCTCATCTTTGTGCTTCAGAAATGCAGCTCTTGAGAACAGCACTGGCTGTGTTTGGAAAAGGGA  
 TGCTATCTGGCTCCTCAGCTGCCTTCTCTCTACACGAGTGAGCTCTACCCTACAGTCTCAGGCAAA  
 CAGGTATGGGTATCAGTAACGTGTGGGCTCGAGTAGGAAGTATGATAGCCCCACTGGTAAAAATCACGGG  
 TGAAGTGCAGCCCTTCAATCCCTAATGTCATCTTTGGGACCACGGCCCTACTGGGAGGAGTGTGCTTCT  
 TTTCTGCTTGAACCTCAATCGGCCCTTACCGGAGACTATCGAGGACATACAAAAGTGGCACAAGCAAG  
 TCCAGAAAACAAAGCAGGAGTCGGAAGCAGAAAAGGCATCCCAAATAATCCCGTGAAGACTGGTGA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR207118 representing NM\_031332  
 Red=Cloning site Green=Tags(s)

MTFSEILDRVSMGPFQYLHVTLALPVLGIANHLLQIFATTPVHHRPPPNASIGPWVLPDPNGKP  
 EKCLRFVHLPNASLPNDTQRATEPCLDGWIYNSTRDITVIEWDLVCSNKLKEMAQSIIFMAGILVGGPVI  
 GELSDRFGRKPILTWSYMLAASGSAAFSPSLPVYMIIFRFLCGCSISGISLSTVILNVEWVPTSMRAIS  
 STSIGYCYTIQFILSGLAYAIQWRWLQTSSAPFFIFSLLSWWVPESIRWLVLSGKYSKALKTLQRVA  
 TFNGKKEEGKLTIEELKFNLQKDITSKVYGLSDLFRVSIILRRVTFCLSLAWFSTGFAYYSLAMGVEE  
 FGVNIYILQIFGGVDIPAKFITILSLSYLRITQSFLLLLAGGAILALIFVPSEMQLLRTALAVFGKG  
 CLSGSFSCLFLYSELVPTVLRQTGMGINSVWARVGSMIAPLVKITGELQPFIPNVIFGTTALLGGSAAF  
 FLETLNRPLPETIEDIQNWHKQVQKTKQESEAEKASQIPLKTGG

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_031332

ORF Size: 1608 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_031332.1](#), [NP\\_112622.1](#)

RefSeq Size: 2157 bp

RefSeq ORF: 1611 bp

Locus ID: 83500

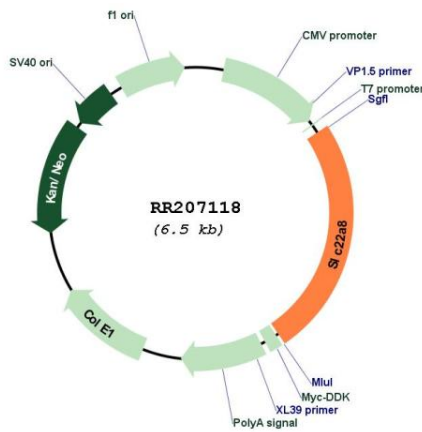
UniProt ID: [Q9R1U7](#)

Cytogenetics: 1q43

MW: 59.2 kDa

Gene Summary: organic anion transporter; involved in homovanillic acid (HVA), an end metabolite of dopamine, transport [RGD, Feb 2006]

**Product images:**



Circular map for RR207118