

## Product datasheet for **MR223539**

### **Slc22a8 (NM\_001164634) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc22a8 (NM_001164634) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc22a8
Synonyms:	Oat3; Roct
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR223539 representing NM\_001164634  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGACCTTCTCCGAGATTCTGGACCGTGTGGAAGCATGGGCCCTTCCAGTACCTGCATGTGACCTTGC  
 TGGCCCTCCCAATCCTCGGAATAGCCAACCACAACCTTGCTACAGATCTTACAGCCACCACCCTGACCA  
 CCACTGTCGCCCCGCCCAACGCCTCTCTAGAGCCCTGGTACTCCCCTTGGGCCCAAACGGAAGCCT  
 GAGAAGTGTCTCCGCTTCGTGCATCTGCCAAACGCCAGTCTTCCAATGACACCCAGGGGCCACCAGAGC  
 CATGCTTGGATGGCTGGATCTACAACAGCACCAGAGACACCATTGTGACAGAGTGGGACTTGGTATGCGG  
 CTCCAACAACTGAAGGAGATGGCACAGTCAGTCTTATGGCAGGTATACTGGTTGGAGGACCTGTGTTT  
 GGAGAAGTGTGACAGGTTTGGCCGCAAGCCATCCTGACCTGGAGCTATCTCTGCTGGCAGCCAGT  
 GCTCCAGTGTGCTTCCAGCCCAGCCTACTGTCTATATGATCTCCGATTCTGTGTGGCTGCAGCAT  
 CTCGGGCATTTCTGAGCACCATTATCTGAATGTGGAATGGTACCCACCTCCAGCGGGCCATCTCA  
 TCAACAACTATTGGGTACTGCTACACCATTGGTCAATTCTGCTGGCCTGGCCTATGCCGTTCCCTC  
 AGTGGCGCTGGCTACAGTTGTCCGTGTCTGCTGCCTTCTCATCTTCTCCTTGTGTCTGGTGGGTACC  
 AGAGTCCATACGCTGGCTGGTTCTGTCTGGAAAATTCTCAAAGGCTCTGAAGACTCCAACGTGTGGCT  
 ACCTTCAACGGCAAGAAGGAGGAAGGGGAAAAGCTCACTGTGGAGGAGCTGAAGTTCAACTTGCAGAAGG  
 ACATCACCTCAGCCAAGTCAAATATGGCTTACTGACTTGTCCGAGTGTCCATCTGCGCCGTGTGAC  
 CTTCTGTCTCTCTGGCCTGGTTTGTACTGGCTTGGCTACTACAGTTGGCTATGGGAGTAGAAGAA  
 TTTGGAGTCAACATCTACATACTCCAGATCATCTCGTGGGGTTGACATTCCCAGTTCATCACAA  
 TCCTCTCCATAAGTTATCTGGCCGGCGCATCACTCAGGCTTCTCCTGATCCTGGCAGGAGTGGCCAT  
 CCTGGCCCTCATCTTTGTCTTCAGAAATGCAGCTCTTGAGAACAGCACTGGCTGTATTTGGGAAGGGA  
 TGCTGTCTGGCTCCTTCACTGCTCTTCTCTACACAAGTGAAGTCTACCCTACAGTCTCAGGCAAA  
 CAGGTATGGGTATCAGTAACATATGGGCTCGAGTGGGAAGTATGATAGCCCACTGGTAAAAATCACGGG  
 AGAACTGCAGCCCTTCAATCCCTAATGTCATCTTTGGGACCATGACTCTACTGGGAGGAGTGTGCTTCT  
 TTTCTGCTTGGACCCCTCAATCGGCCCTTACCAGAACTATCGAGGACATACAAGACTGGTACCAGCAAA  
 CCAAGAAAACAAAGCAGGAGCCAGAAGCAGAAAAGGCATCCAGACAATCCCGCTGAAGACTGGTGGACC  
 C

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR223539 representing NM\_001164634  
 Red=Cloning site Green=Tags(s)

MTFSEILDRVGSMPFQYLHVTLALPILGIANHLLQIFTATTPDHHCRPPNASLEPWWLPLGPNKPK  
 EKCLRFVHLPNASLPNDTQGATEPCLDGWIYNSTRDTIVTEWDLVCGSNKLEMAQSVFMAGILVGGPVF  
 GELSDRFGRKPILTWSYLLLAASGSSAAFSPSLTVYIMIFRFLCGCSISGISLSTIILNVEWVPTSTRAIS  
 STTIGYCYTIQGFILPGLAYAVPQWRWLQLSVSAFFIFSLLSWWVPESIRWLVLGKFSKALKTLQRVA  
 TFNGKKEEGEKL TVEELKFNLQKDITSKVKYGLSDLFRVSI LRRVTFCLSLAWFATGFAYYSLAMGVEE  
 FGVNIYILQIIFGGVDIPAKFITILSISYLGRITQGFLLILAGVAILALIFVSSEMQLLRTALAVFGKG  
 CLSGSFSCLFLYSEL YPTVLRQTGMGISNIWARVGSMIAPLVKITGELQPFIPNVIFGTM LLLGGSAAF  
 FLETLNRPLPETIEDIQDWYQTKKTKQEPEAEKASQTIPLKTGGP

**TR**TRPLEQKLI SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_001164634

ORF Size: 1611 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\\_001164634.1](#), [NP\\_001158106.1](#)

RefSeq Size: 3415 bp

RefSeq ORF: 1614 bp

Locus ID: 19879

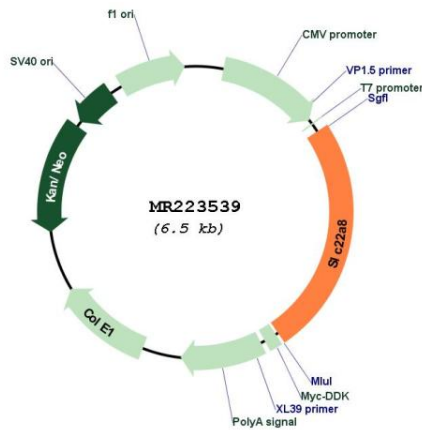
UniProt ID: [O88909](#)

**Cytogenetics:** 19 A

**MW:** 59.2 kDa

**Gene Summary:** Plays an important role in the excretion/detoxification of endogenous and exogenous organic anions, especially from the brain and kidney. Mediates the uptake of p-amino-hippurate (PAH) and estron sulfate (ES). Also mediates uptake of several organic compounds such as prostaglandin E(2), prostaglandin F(2-alpha), allopurinol, 6-mercaptopurine (6-MP), 5-fluorouracil (5-FU), and L-carnitine.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR223539