

Product datasheet for **MR208590**

Slc22a8 (NM_031194) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a8 (NM_031194) 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:

>MR208590 representing NM_031194
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCGCGATCGCC

ATGACCTTCTCCGAGATTCTGGACCGTGTGGAAGCATGGGCCCTTCCAGTACCTGCATGTGACCTTGC
 TGGCCCTCCCAATCCTCGGAATAGCCAACCACAACCTTGCTACAGATCTTACAGCCACCACCCTGACCA
 CCACTGTCGCCCCCCCCAACGCCTCTCTAGAGCCCTGGTACTCCCCTTGGGCCCAAACGGAAGCCT
 GAGAAGTGTCTCCGCTTCGTGCATCTGCCAAACGCCAGTCTTCCAATGACACCCAGGGGCCACCAGAGC
 CATGCTTGGATGGCTGGATCTACAACAGCACCAGAGACACCATTGTGACAGAGTGGGACTTGGTATGCGG
 CTCCAACAACTGAAGGAGATGGCACAGTCAGTCTTATGGCAGGTATACTGGTTGGAGGACCTGTGTTT
 GGAGAAGTGTGACAGGTTTGGCCGCAAGCCATCCTGACCTGGAGCTATCTTGTGTCGAGCCAGT
 GCTCCAGTGTGCTTCCAGCCAGCCTACTGTCTATATGATCTCCGATTCTGTGTGGCTGCAGCAT
 CTCGGGCATTTCTGAGCACCATTATCTGAATGTGGAATGGTACCCACCTCCAGCGGGCCATCTCA
 TCAACAACTATTGGGTACTGCTACACCATTGGTCAATTATTCTGCCTGGCCTGGCCTATGCCGTTCCCTC
 AGTGGCGCTGGCTACAGTTGTCCGTGTCTGCTGCCTTCTCATCTTCTCCTTGTGTCTGGTGGGTACC
 AGAGTCCATACGCTGGCTGGTTCTGTCTGGAAAATTCTCAAAGGCTCTGAAGACACTCCAACGTGTGGCT
 ACCTTCAACGGCAAGAAGGAGGAAGGGGAAAAGCTCACTGTGGAGGAGCTGAAGTTCAACTTGCAGAAGG
 ACATCACCTCAGCCAAGTCAAATATGGCTTACTGACTTGTCCGAGTGTCCATCTGCGCCGTGTGAC
 CTTCTGTCTCTCTGGCCTGGTTTGTACTGGCTTGGCTACTACAGTTGGCTATGGGAGTAGAAGAA
 TTTGGAGTCAACATCTACATACTCCAGATCATCTCGTGGGGTTGACATTCCCAGTTCATCACAA
 TCCTCTCCATAAGTTATCTGGCCGGCGCATCACTCAGGGCTTCTCCTGATCCTGGCAGGAGTGGCCAT
 CCTGGCCCTCATCTTGTGTCTTCAGAAATGCAGCTCTTGAGAACAGCACTGGCTGTATTTGGGAAGGGA
 TGCTGTCTGGCTCCTCAGCTGCCTTCTCCTCTACACAAGTGAAGTCTACCCTACAGTCTCAGGCAAA
 CAGGTATGGGTATCAGTAACATATGGGCTCGAGTGGGAAGTATGATAGCCCCACTGGTAAAAATCACGGG
 AGAACTGCAGCCCTTATCCCTAATGTCATCTTGGGACCATGACTCTACTGGGAGGAGTGTGCTCCTC
 TTTCTGCTTGGACCCCTCAATCGGCCCTTACCAGAACTATCGAGGACATACAAGACTGGTACCAGCAAA
 CCAAGAAAACAAAGCAGGAGCCAGAAGCAGAAAAGGCATCCAGACAATCCCGCTGAAGACTGGTGGACC
 C

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208590 representing NM_031194
 Red=Cloning site Green=Tags(s)

MTFSEILDRVGSMGPFQYLHVTLALPILGIANHLLQIFATTPDHCRRPPNASLEPWWLPLGPNKPK
 EKCLRFVHLPNASLPNDTQGATEPCLDGWIYNSTRDTIVTEWDLVCGSNKLEMAQSVFMAGILVGGPVF
 GELSDRFGRKPIILTWSYLLLAASGSSAAFSPSLTVYMIFFRFLCGCSISGISLSTIILNVEWVPTSTRAIS
 STTIGYCYTIQGFILPGLAYAVPQWRWLQLSVSAFFIFSLLSWWVPESIRWLVLGKFSKALKTLQRVA
 TFNGKKEEGEKL TVEELKFNLQKDITSKVKYGLSDLFRVSILRRVTFCLSLAWFATGFAYYSLAMGVEE
 FGVNIYILQIIFGGVDIPAKFITILSISYLGRITQGFLLILAGVAILALIFVSSEMQLLRTALAVFGK
 CLSGSFSCLFLYSEL YPTVLRQTGMGISNIWARVGSMIAPLVKITGELQPFIPNVIFGTMILLGGSAAF
 FLETLNRPLPETIEDIQDWYQTKKTKQEPEAEKASQTIPLKTGGP

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9027_a04.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_031194

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_031194.5](#), [NP_112471.3](#)

RefSeq Size: 3495 bp

RefSeq ORF: 1614 bp

Locus ID: 19879

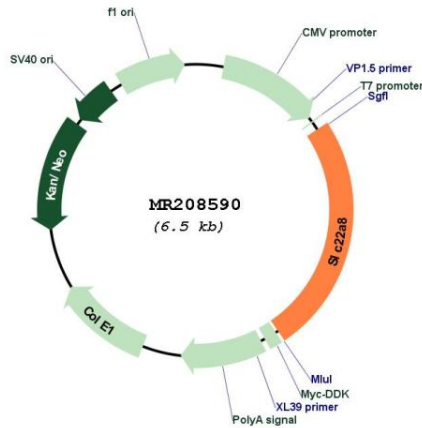
UniProt ID: [O88909](#)

Cytogenetics: 19 A

MW: 59.7 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 MR208590