

Product datasheet for **MG208590**

Slc22a8 (NM_031194) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc22a8 (NM_031194) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc22a8
Synonyms:	Oat3; Roct
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208590 representing NM_031194
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGACCTTCTCCGAGATTCTGGACCGTGTGGAAGCATGGGCCCTTCCAGTACCTGCATGTGACCTTGC
 TGGCCCTCCCAATCCTCGGAATAGCCAACCACAACCTTGCTACAGATCTTACAGCCACCACCCTGACCA
 CCACTGTCGCCCCGCCCAACGCCTCTCTAGAGCCCTGGTACTCCCCTTGGGCCCAAACGGAAGCCT
 GAGAAGTGTCTCCGCTTCGTGCATCTGCCAAACGCCAGTCTTCCAATGACACCCAGGGGCCACCAGAGC
 CATGCTTGGATGGCTGGATCTACAACAGCACCAGAGACACCATTGTGACAGAGTGGGACTTGGTATGCGG
 CTCCAACAACTGAAGGAGATGGCACAGTCAGTCTTATGGCAGGTATACTGGTTGGAGGACCTGTGTTT
 GGAGAAGTGTGACAGGTTTGGCCGCAAGCCATCCTGACCTGGAGCTATCTTGTGTCGAGCCAGT
 GCTCCAGTGTGCTTCCAGCCCAGCCTACTGTCTATATGATCTCCGATTCTGTGTGGCTGCAGCAT
 CTGGGCATTTCTGAGCACCATTATCTGAATGTGGAATGGTACCCACCTCCAGCGGGCCATCTCA
 TCAACAACTATTGGGTACTGCTACACCATTGGTCAATTCTGCTGGCTGGCTATGCCGTTCCCTC
 AGTGGCGTGGCTACAGTTGTCCGTGTCTGCTGCCTTCTCATCTTCTCCTTGTGTCTGGTGGGTACC
 AGAGTCCATACGCTGGCTGGTTCTGCTGGAAAATTCTCAAAGGCTCTGAAGACTCCAACGTGTGGCT
 ACCTTCAACGGCAAGAAGGAGGAAGGGGAAAAGCTCACTGTGGAGGAGCTGAAGTTCAACTTGCAGAAGG
 ACATCACCTCAGCCAAGGTCAAATATGGCTTATCTGACTTGTCCGAGTGTCCATCCTGCGCCGTGTGAC
 CTTCTGTCTCTCTGGCCTGGTTTGTACTGGCTTGGCTACTACAGTTGGCTATGGGAGTAGAAGAA
 TTTGGAGTCAACATCTACATACTCCAGATCATCTCGTGGGGTGGACATTCCCGCAAGTTCATACAA
 TCCTCTCCATAAGTTATCTGGCCGGCGCATCACTCAGGGCTTCTCCTGATCCTGGCAGGAGTGGCCAT
 CCTGGCCCTCATCTTTGTCTTTCAGAAATGCAGCTCTTGAGAACAGCACTGGCTGTATTTGGGAAGGGA
 TGCTGTCTGGCTCCTTCACTGCTCTTCTCTACACAAGTGAAGTCTACCCTACAGTCTCAGGCAAA
 CAGGTATGGGTATCAGTAACATATGGGCTCGAGTGGGAAGTATGATAGCCCCACTGGTAAAAATCACGGG
 AGAACTGCAGCCCTTATCCCTAATGTATCTTTGGGACCATGACTCTACTGGGAGGAGTGTGCTCTC
 TTTCTGCTTGGACCCCTCAATCGGCCCTTACCAGAACTATCGAGGACATACAAGACTGGTACCAGCAA
 CCAAGAAAACAAAGCAGGAGCCAGAAGCAGAAAAGGCATCCAGACAATCCCGCTGAAGACTGGTGGACC
 C

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208590 representing NM_031194
 Red=Cloning site Green=Tags(s)

MTFSEILDRVSMGPFQYLHVTLALLPILGIANHLLQIFATTPDHHCRPPPNASLEPWVLPNGPKP
 EKCLRFVHLPNASLPNDTQGATEPCLDGWIYNSTRDITVTEWDLVCGSNKLEMAQSVFMAGILVGGPVF
 GELSDRFGRKPILTWSYLLLAASGSSAAFSPSLTYMIFRFLCGCSISGISLSTIILNVEWVPTSTRAIS
 STTIGYCYTIGQFILPGLAYAVPQWRWLQSVSAAFFIFSLLSWWVPESIRWLVLSGKFSKALKTLQRVA
 TFNGKKEEGEKL TVEELKFNLQKDITSKVYGLSDLFRVSI LRRTVFCLSLAWFATGFAYYSLAMGVEE
 FGVNIYILQIFGGVDIPAKFITILSISYLGRITQGFLLILAGVAILALIFVSSEMQLLRALAVFGKG
 CLSGSFSCLFLYSEL YPTVLRQTGMGINSIWARVGSMIAPLVKITGELQPFIPNVIFGTM TLLGGSAAF
 FLETLNRPLPETIEDIQDWYQTKKTKQEPEAEKASQTIPLKTGGP

TRTRPLE - GFP Tag - V

Restriction Sites:

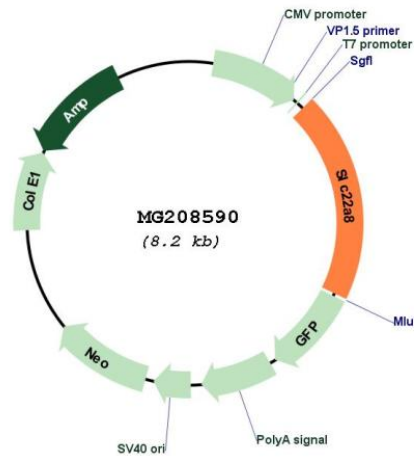
Sgfl-Mlul

Cloning Scheme:

Cloning sites used for ORF Shutting:



Plasmid Map:



ACCN:	NM_031194
ORF Size:	3492 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:	<ol style="list-style-type: none">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:	3444 bp
RefSeq ORF:	1614 bp
Locus ID:	19879
UniProt ID:	O88909
Cytogenetics:	19 A
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]