

Product datasheet for **MG218772**

Slc39a8 (NM_001135149) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a8 (NM_001135149) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc39a8
Synonyms:	4933419D20Rik; AA986696; BIGM103; ZIP-8; Zip8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG218772 representing NM_001135149
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTCCGGGCCGGGCAGTGGCCGGGCTGCTGCTGCTGGCGGCCACCAGCCTGGGACACCCTCGGAGG
 GACCGGAGCTCGCTTCAGTGAGGATGTGCTGAGCGTGTTCGGCGCCAACCGGAGCCTGTCGGCCGCGCA
 GCTGGGGCGCCTGCTGGAGCGTCTGGGGCTGCATCCCAGCAGGGAGCGCTGGACCTGGGCCAGCTGCAC
 TTCAACCAGTGTTTGTACAGCAGAAGACATCTTTTCTTTCATGGTTTCTCAAATGTCACCCAGATAACCA
 GCTCGAATTCTCTGCCATCTGCCCGCGATCTTACAGCAGCTGAACTTCCATCCCTGCGAGGATCTAAG
 AAAGCACAACGCAAAGCCAGTCTTCCGAAGTCTGGGGCTATGGATTCCCTGTCAGTGACAATTATCAAT
 CTGGCCTCTCTCTGGGATTGATTTAAACCCCTTGATAAAGAAGTCTTATTTCCCAAGATTTAACTT
 ATTTCTGGGACTCGCTATTGGGACTCTTTTCTCAAACGCCATTTCCAGCTTATCCAGAGGCATTTGG
 ATTTAATCCAAAATTGACAATTACGTTGAGAAAGCAGTTGCTGTGTTTGGTGGATTTTACATGCTTTTC
 TTTGTCGAGAGAACACTTAAGATGCTACTGAAAACATATGGCCAGAATGACCATACTCACTTCAGGAATG
 ATGACTTTGGTTCTAAAGAAAAAACCCACCAACCAAAACGTTACCATTGCCTGCAGTCAACGGTGTGAC
 TTGCTATGCCAACCCCGCTGCTACTGAGCCTAACGGACACATCCACTTCGACACTGTCAGCGTTGTATCC
 CTCCAGGATGGAAAAACAGAGCCAAGCTCATGTACCTGTCTGAAGGGGCCAAACTGTCAGAAATAGGAA
 CAATTGCCTGGATGATCACGCTTTGTGATGCCCTCCACAATTTTCATCGACGGCTTGGCGATTGGGGCATC
 TTGACTTTGTCTCTTCTCAGGGGCTCAGTACGTCCATAGCGATCCTGTGTGAGGAGTTTCCCTCATGAG
 TTAGGGGACTTTGTGATCTTGTCAATGCAGGAATGAGCACCCGCAAGCCTTGTGTTCAACTTCTCT
 CCGCGTGTCTCTGCTACGTGGGACTAGCTTTCGGCATTTCGGTGGCAACAATTTTGTCCCAATATTAT
 ATTTGCATCTCGCTGGAGGCATGTTCTCTACATTTCTCTGGCAGATATGTTTCCAGAGATGAACGACATG
 CTGAGAGAAAAAGTAACTGGAAGACAAACGGATTTACCTTCTCATGATCCAGAATGCAGGGATGTTAA
 CCGGCTTCACTGCCATCTGCTCATCACCTGTACGCAGGAGACATCGAATTGCAG

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG218772 representing NM_001135149
 Red=Cloning site Green=Tags(s)

MAPGRAVAGLLLLAATSLGHPSEGPELAFSEDVLSVFGANRSLAAQLGRLLERLGAASQQGALDLGQLH
 FNQCLSAEDIFSLHGFSNVTQITSSNFSAIQPAIQQLNFHPCEDLRKHNAKPSLSEVWGYGFLSVTIIN
 LASLLGLILTPLIKKSYFPKILTYFVGLAIGTLFSNAIFQLIPEAFGFNPKIDNYVEKAVAVFGGFYMLF
 FVERTLKMLLKYQNDHTHFRNDDFGSKEKTHQPKTLPLPAVNGVTCYANPAVTEPNHGHIFDTSVVS
 LQDGKTEPSSCTCLKGPKLSEIGTIAWMITLCDALHNFIDGLAIGASCTLSLLQGLSTSIAILCEEFPHE
 LGDFVILLNAGMSTRQALLFNFLSACSCYVGLAFGILVGNFAPNIIIFALAGGMFLYISLADMFPPEMNDM
 LREKVTGRQDFTFFMIQAGMLTGFTAILLITLYAGDIELQ

TRTRPLE - GFP Tag - V

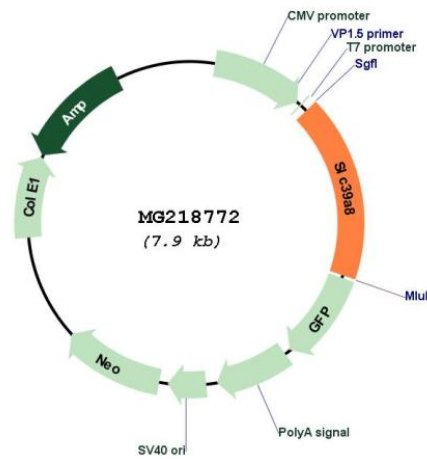
Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



Plasmid Map:



ACCN: NM_001135149

ORF Size: 1386 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:	<u>NM_001135149.1, NP_001128621.1</u>
RefSeq Size:	3383 bp
RefSeq ORF:	1389 bp
Locus ID:	67547
UniProt ID:	<u>Q91W10</u>
Cytogenetics:	3 63.04 cM
Gene Summary:	Acts as a manganese and zinc influx transporter. Plays a role in manganese reabsorption in the proximal tubule of the kidney and in manganese uptake into the brain.[UniProtKB/Swiss-Prot Function]