

Product datasheet for **MR216081**

Slc39a8 (NM_001135150) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a8 (NM_001135150) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc39a8
Synonyms:	4933419D20Rik; AA986696; BIGM103; ZIP-8; Zip8
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR216081 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGCTCCGGGCCGGGCAGTGGCCGGGCTGCTGCTGCTGGCGGCCACCAGCCTGGGACACCCTCGGAGG
 GACCGGAGCTCGCCTTCAGTGAGGATGTGCTGAGCGTGTTCGGCGCCAACCGGAGCCTGTCGGCCGCGCA
 GCTGGGGCGCCTGCTGGAGCGTCTGGGGCTGCATCCCAGCAGGGAGCGCTGGACCTGGGCCAGCTGCAC
 TTCAACCAGTGTTTGTACAGCAGAAGACATCTTTTCTTTCATGGTTTCTCAAATGTCACCCAGATAACCA
 GCTCGAATTCTCTGCCATCTGCCCGCGATCTTACAGCAGCTGAACTTCCATCCCTGCGAGGATCTAAG
 AAAGCACAACGCAAAGCCAGTCTTTCCGAAGTCTGGGGCTATGGATTCTGTGAGTACAATTATCAAT
 CTGGCCTCTCTCCTGGGATTGATTTAAACCCCTTGATAAAGAAGTCTTATTTCCCAAGATTTAACTT
 ATTTCTGGGACTCGCTATTGGGACTCTTTTCTCAAACGCCATTTCCAGCTTATCCAGAGGCATTTGG
 ATTTAATCCAAAATTGACAATTACGTTGAGAAAGCAGTTGCTGTGTTTGGTGGATTTTACATGCTTTTC
 TTTGTCGAGAGAACACTTAAGATGCTACTGAAAACATATGGCCAGAATGACCATACTCACTTCAGGAATG
 ATGACTTTGGTTCTAAAGAAAAAACCCACCAACCAAAACGTTACCATTGCCTGCAGTCAACGGTGTGAC
 TTGCTATGCCAACCCCGCTGCTACTGAGCCTAACGGACACATCCACTTCGACACTGTCAGCGTTGTATCC
 CTCCAGGATGGAAAAACAGAGCCAAGCTCATGTACCTGTCTGAAGGGGCCAAAACGTCAGAAAATAGGAA
 CAATTGCCTGGATGATCACGCTTTGTGATGCCCTCCACAATTTTCATCGACGGCTTGGCGATTGGGGCATC
 TTGACTTTGTCTCTTCTCAGGGGCTCAGTACGTCCATAGCGATCCTGTGTGAGGAGTTTCTCATGAG
 TTAGGGGACTTTGTGATCTTGTCAATGCAGGAATGAGCACCCGCAAGCCTTGTGTTCAACTTCTCT
 CCGCGTCTCTGCTACGTGGGACTAGCTTTCGGCATTTTGGTGGCAACAATTTGCTCCCAATATTAT
 ATTTGCACCTCGCTGGAGGCATGTTCTCTACATTTCTCTGGCAGATATGTTTCCAGAGATGAACGACATG
 CTGAGAGAAAAAGTAACTGGAAGACAAACGGATTTACCTTCTCATGATCCAGAATGCAGGGATGTTAA
 CCGGCTTCACTGCCATCTGCTCATCACCTGTACGCAGGAGACATCGAATTGCAG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR216081 protein sequence
 Red=Cloning site Green=Tags(s)

MAPGRAVAGLLLLAATSLGHPSEGPELAFSEDVLSVFGANRSLAAQLGRLLERLGAASQQGALDLGQLH
 FNQCLSAEDIFSLHGFSNVTQITSSNFSAIQCPAILQQLNFHPCEDLRKHNAKPSLSEVWYGFLSVTIIN
 LASLLGLILTPLIKKSYFPKILTYFVGLAIGTLFSNAIFQLIPEAFGFNPKIDNYVEKAVAVFGGFYMLF
 FVERTLKMLLKTYGQNDHTFRNDDFGSKEKTHQPKTLPLPAVNGVTQYANPAVTEPNHGHFDIVSVVS
 LQDGKTEPSSCTCLKGPKLSEIGTIAWMITLCDALHNFIDGLAIGASCTLSLLQGLSTSIAILCEFPHE
 LGDFVILLNAGMSTRQALLFNFLSACSCYVGLAFGILVGNFAPNIIFALAGGMFLYISLADMFPPEMNDM
 LREKVTGRQTDFTFFMIQNAAGMLTGFTAILLITLYAGDIELQ

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_001135150

ORF Size: 1389 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_001135150.1](#), [NP_001128622.1](#)

RefSeq Size: 3533 bp

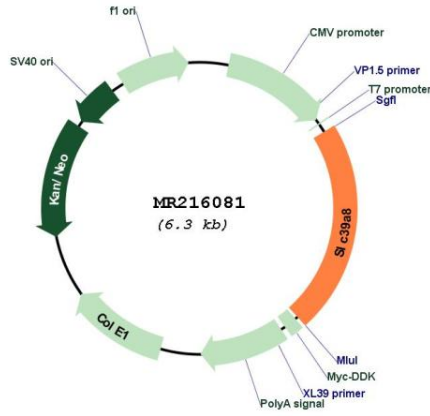
RefSeq ORF: 1389 bp

Locus ID: 67547

UniProt ID: [Q91W10](#)

Cytogenetics: 3 63.04 cM
MW: 50.1 kDa
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]

Product images:



Circular map for MR216081