

Product datasheet for **MR210880**

Slc39a10 (NM_172653) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a10 (NM_172653) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc39a10
Synonyms:	2900042E17Rik; 5430433I10; mKIAA1265
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR210880 representing NM_172653
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAAGGTGCATATACACACAAAGTTTTGCCTCATCTGTTTACTGACATTTATTTTCCATCATTGCAACC
 ACTGCCATGAAGACCATGACCATGGCCCTGAGGAGCTTCACAGACATCATCGTGGGATGACAGAGTCAGA
 GTCAAGCAAATTTTCAGTGCAGGATGCTGAAAATGAAAAAAGTACTATATTGAAAACTTTTGACCGT
 TATGGTAAAAATGGAAGATTATCATTTTTTGGTCTGGAGAACTTTTAACAACTTGGGCCTTGAGAGA
 TCAAAGTCGTTGAGATTAATCACGAGGACCTTGCCCATGATCATGTTTCTCACTTAGACATTCTGGCAGT
 GCAAGAGGGAAAGCATTTCATTTCGCATACCCACCAGCATTTCACAATCATTTAAATGCAGAAAATCAT
 ACTACAACCAGTGTGACATCAAAAAGAAACCACAAATGTATCCAGAGAAAGAGGCAGCTGAAGTCCCCA
 TCAAAGCTGATGATAAACACCTGCATGACCGCAATCACCGCTTCCATCATCGCCATCGTTTGCATCATCA
 CCTGGATCACAACACTACTCGTCACGTTTATAATGACTCCGTTGCTCACAGTGAGCATGGGAGCCCGGT
 CACAGCCCTTACCAGAGACCAATAAACACAAAGAGCAGTCTGAAGTGAAGTCAGTGAAGGTCAGGAGGA
 AAGAAAAAGGGAAGAGGAAGAAAGAAACTCGGAGGTTAATACACCAGGTTTCTCCCCAACCATGATCA
 CAGTGAACAATATGAGCATAACCGGTTTCAAACTTGACCGTGTACATAGCCCTGGCCATCCTCATGCG
 CATCTTCTGAGCACAGTGGTCATGAGCTTGCCATGGACACCAAGAACTTGATCCTGATAATGAAGGTG
 AACTTCGACATACTAGAAAGCGAGAAGCACCACATGTTAGAAAAAGTGCAATTTATTCCACCCCTAGCCA
 CAAAGACCAGAGTGAAGACGACCGCCAGCATGAATGTTTGAACGTCACCTAGTTGTTAAACACTTTGGT
 CTTGGTCCGAACCTCTCCATCTCACCGGATCTATTCACGTACCTTTGCCCTGCATTGCTGTATCAGATCG
 ACAGCAGACTTTGTATTGAACATTTTGACAACTTTTAGTTGAAGATTTAAATAAGGATAAACTCTGGT
 TCCTGAAGATAAGACAAATATAGGGGCATCGGCGTGGATCTGTGGCATCATATCTATCACCGTCATTAGT
 CTGCTTTCTGCTGGGTGTGATTTTGGTTCCTCATCAACCAAGGATGCTTCAAATTCCTTCTCACGT
 TCCTTGTGCACTAGCAGTAGGAACAATGAGTGGAGACGCCCTTCTGCATCTACTGCCCCATTCTCAGGG
 TGGACATGACCACAGTCATCAGCATACGCACGGACATGGTCATTACATGGGCATGAATCTAAGGAGTTT
 TTGGAAGAATATGATGCTGTGTTGAAAGGACTTGTGGCGTAGGAGGCATTTACTTACTGTTTCATCATAG
 AACACTGCATTGCAATGTTTAAGCACTACAAGCAACAAAGAGGAAACAGAAATGGTTTATGAAGCAGAG
 CACAGAAGAATCCACTATTGGAAGAAAGCTTTCAGATCATAAGTTAAACAGCACACCGGATGCTGACTGG
 CTCCAACCTCAAGCCCCTTGTGGAACGGATGACTCGGTAGTCTCTGAAGACCGGCTTAATGAGACTGAAC
 TGACGGATTTAGAAGCCCAACAAGAATCCCTCCTAAAAATTACCTGGGTGTGGAGGAAGAGAAAATCAT
 GGACCATTTCTCACAGTGATGGACTGCACACCATTCATGAGCACGAGGTCCACGTGACCTCACATAACCAC
 CATGATGAGGATAAAGCAGTGTCTGAGGAAGCACAGCCACCAGTGGCACCAGACACGCCCATCATTCTC
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 GGGTGACGGCATCCACAACCTCAGTGACGGCTCGCCATTGGGGCAGCTTTCAGCGCGGGGCTGACTGGA
 GGCATCAGCACATCCATAGCCGCTTCTGTCTGAAGTCCACATGAATTAGGTGATTTTGCAGTTCTTC
 TAAAAGCAGGCATGACCGTAAAGCAAGCAATTGTGTACAATCTGCTCTCTGCCATGATGGCTTACATAGG
 AATGCTCATAGGCACGGCAGTCGGTCAGTATGCCAACACATCACACTCTGGATCTTCGAATCACTGCC
 GGCATGTTCTCTATGTGGCCTTGGTGGATATGCTTCCAGAAATGCTGCATGGAGATGGTGACCATGAGG
 AGCATGGCTTCTGTCCAGTTGGGCAGTTTATTCTTCAAGATTTAGGACTGCTGTTTGGATTGCGCCATCAT
 GCTGGTTATTGCCCTCTATGAAGACAAAATTGTGTTTGACATCCAGTTC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR210880 representing NM_172653
 Red=Cloning site Green=Tags(s)

MKVHIHTKFC LICLLTFIFHHCNHCHEDHDHGPEELHRHHRGMTESESSKFSVQDAENEKYYIEKLFDR
 YGENGRLSFFGLEKLLTNLGLGEIKVVEINHEDLGHDHVSHLDILAVQEGKHFHSHTHQHFHNLNAENH
 TTTSVTSKRNHKCDPEKEAAELPIKADDKHLHNRHFRHHRHLHHLDHNTTRHVHNDVAHSEHGEPG
 HSPSPETNKTQEQSEVKS VKVRRKEKGKRKKENSEVNTPGFLPNHDHSEQYEHNRVHKLD RVHSPGHPHA
 HLPEHSGHELGHGHQELDPDNEGELRHTRKREAPHVRKSAIYSTPSHKDQSEDDRQHECLNVTQLLKHFG
 LGPNSPISPDLFITYLCPALLYQIDSRLCIEHFDKLLVEDLNKDKTLVPEDKTNIGASAWICGIISITVIS
 LLSLLGVILVPIINQGC FKLLTFLVALAVGTMSGDALLHLLPHSQGGHDHSHQHTHGHGSHGHESKEF
 LEEYDAVLKGLVALGGIYLLFIIIEHCIRMFKHYKQQRGKQKWMKQSTEESTIGRKLSDHKLNSTPDADW
 LQLKPLAGTDDSVVSEDRLNETELTDLEAQQESPPKNYLGVEEEKIMDHS HSDGLHTIHEHEVHVTSHNH
 HDEDKAVLRKHS HQWHHRHAHSHG PCHSGSDLKETGIANIAWMVIMGDGIHNFSDGLAIGAAFSAGLTG
 GISTSIAVFCHELPHELGDFAVLLKAGMTVKQAI VYNLLSMMAYIGMLIGTAVGQYANNITLWIFAITA
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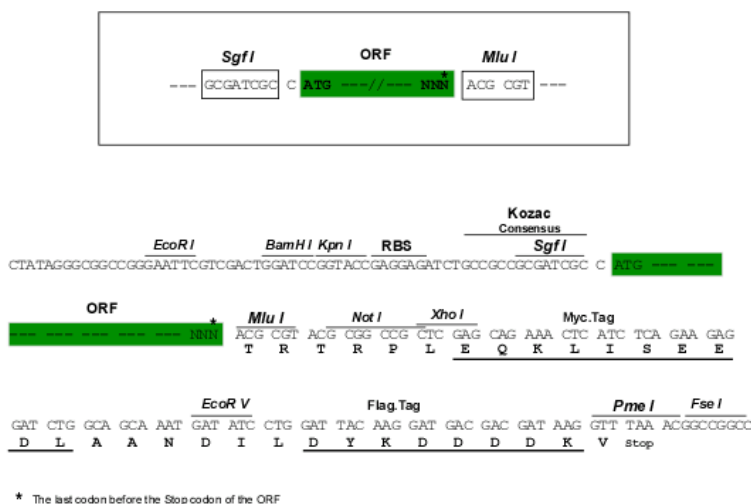
TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfi-MluI

Cloning Scheme:

Cloning sites used for ORF Shuttling:



ACCN: NM 172653

ORF Size: 2499 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_172653.3](#)

RefSeq Size: 5003 bp

RefSeq ORF: 2502 bp

Locus ID: 227059

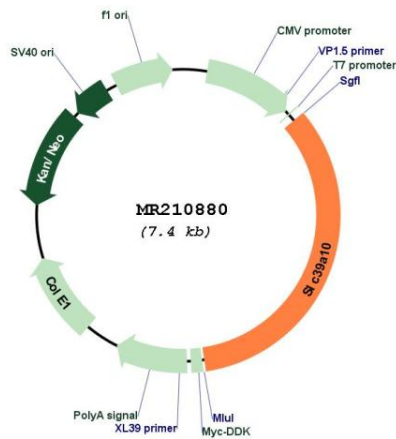
UniProt ID: [Q6P5F6](#)

Cytogenetics: 1 C1.1

MW: 94.8 kDa

Gene Summary: May act as a zinc-influx transporter.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR210880