

Product datasheet for **MR208578**

Slc39a5 (NM_028092) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a5 (NM_028092) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc39a5
Synonyms:	1810013D05Rik; 2010205A06Rik; Zip5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>MR208578 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCCAGTACATCATCTGCTGACTGGCCTATGTGTGGGGGTGGCCTTGGGCTGGGTAGGAGGCT
 CCGTCCCAAACCTGGGCCAGCTGAACAGGAACAGAACCACTACCTGGCCAGTTGTTTGGTCTATATGG
 AGAGAACGGGACACTGACTGCAGGGGGCCTGGCGCGGCTTCTCCACAGCCTAGGACTAGGCCGAGTCCAG
 GGGCTCCGTCTGGGACACCATGAGCCTCCAAGTGGCGGGCTGCACCCACAAGTGGAGACAATTTACAC
 ACAGGCTGCAAGAGCCGAGCTGAGTGTGGACATCTGGGCAGGAATGCCTCTGGGCCCTTCAGTTGGGG
 TGACCAGGAGGAATCAAAGGCTCCTGACCTGCACGGGTGAGGGCCCTCGAGCCTAGACCTCTTCAGAGG
 CTTCTGCTGTTGGACATTCTGTTGGCTGACCATCTGAATGAGGATTGTCTGAATGGCTCCAGCTGCTGG
 TCAATTTTGGACTGAGCCCTGTTGCTCCTGACCCCTCGTCAGTTCGCTCTGCTGTGCCAGCCCTGCT
 TTATCAGATTGACAGCCGTGTTTGCATCAAAACCCAGCTCCAGCACCTCCGGGGGATGTACTGTCTGCC
 CTGCTTCACAGTGGCCTGGCAGTCTGTTCTCAGCCTCCCTGCTCCCTCTCTCTGCTGTTGCTGCGGC
 TCCTGGGACCTCGTCTGTTGCGGCCAGTCTGGGCTTCCTGGGGGCCCTGGCCGTGGGTACTCTCTGTGG
 GGATGCCCTGCTACACCTGCTCCACATGCGCAAGGAGGGCGGCACACAGGACCTAGTGAGCAATCAGAG
 GAGGACCTGGGTCCGGGACTGTCGGTGCTTGGTGGCCTCTTCTGCTCTTCATGCTAGAGAACACACTAG
 GACTTGTGCGGCACAGAGGGCTCAGGCCAAGATGCTGCAGGAACAAAAGGGATCTTGAGAACCAAAACC
 TGACCCAGAGGATGGCAGTGGGATGGTCTTCGACCCCTACAGGCAGCTTCAGAACAGAGGTTCAAGGC
 CAGAGGGAGAACAGACAGTCTCACCATCTCTAGCCCTCCTGGGCACCAAGGCCACAGCCATGAGCACC
 GGGGTGGCAGTATCGCATGGATGGTCTCCTGGGAGATTGCCTGCACAACCTACCGACGGGCTGGCATT
 AGGTGCTGCTTTCTCAGACGGCTTCTCCAGTGGCCTCAGCACTACCCTAGCAGTCTTCTGCCACGAGCTG
 CCCCACGAACTGGGTGACTTTGCCATGCTGCTTACGGAAGGGTTATCCTTTCGGAAGCTGCTGCTGCTGA
 GCCTCGTTTCTGGAGCCCTGGGACTGGGGGTGCAGCCCTGGGGGTGGGCTCAGCTTGGGCCCTGTGCC
 CCTCACCCCTGGGTGTTTGGGACCAGGCTGGGGTTTCTCTATGTGGCCCTAGTGGATATGCTGCCA
 ACCCTGCTTCGTCCTCCTGAGCCCTGCCTGTGTTCCACGTGCTTCTGCAGGGGCTGGGGCTGCTACTGG
 GGGGCAGCCTCATGTTTACCATAGCCCTATTGGAGGAGCAGCTAGTGCCACGGTTCCTGACGGC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208578 protein sequence
 Red=Cloning site Green=Tags(s)

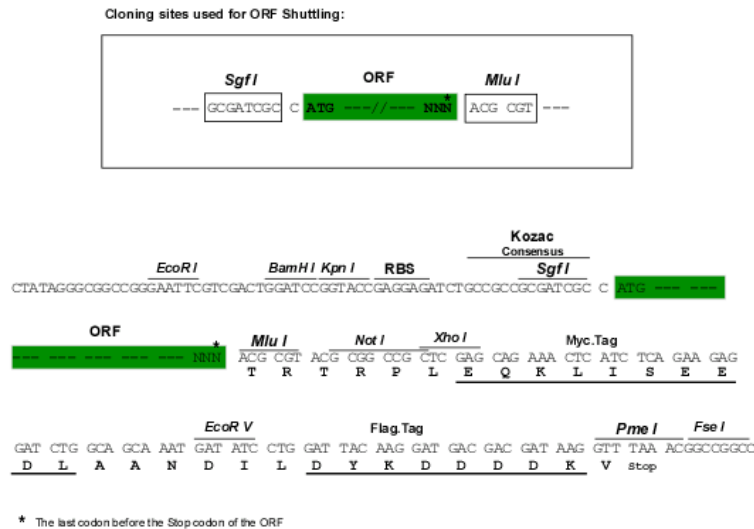
MGPPVHLLTGLCVGVALGWVGSVPNLGPAEQEQNHLYLAQLFGLYGENGTLAGGLARLLHSLGLGRVQ
 GLRLGHHEPPTGRAAPTSGDNFTHRLQEPELSVDIWAGMPLGPSWGDQEEKAPDLHGSGPSSLDLFQR
 LLLLDHSLADHLNEDCLNGSQLLVNFGLSPVAPLTPRQFALLCPALLYQIDSRVCIKTPAPAPPGDVL
 LLHSLAVLFLSLPAPLSLLLLRLLGPRLLRPVLGFLGALAVGTLCGDALLHLLPHAQGGRTGPSEQSE
 EDLGPGLSVLGGFLFLMLENTLGLVRHRLRPRCCRNKRDLEPNPDPEGSGMVLRLPQAASEPEVQG
 QRENQSSPSLAPPGHQHSHEHRGGSIAWMVLLGDCLHNLTDGLALGAASDGFSSGLSTTLAVFCHL
 PHELGDFAMLLQEGLSFRKLLLLSLVSGALGLGGAALGVGLSLGPVPLTPWVFGTTAGVFLYVALVDMLP
 TLLRPPEPLPVFHVLLQGLGLLLGGSLMFTIALLEEQLVPTVPDG

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_028092

ORF Size: 1605 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_028092.3](#)

RefSeq Size: 1906 bp

RefSeq ORF: 1608 bp

Locus ID: 72002

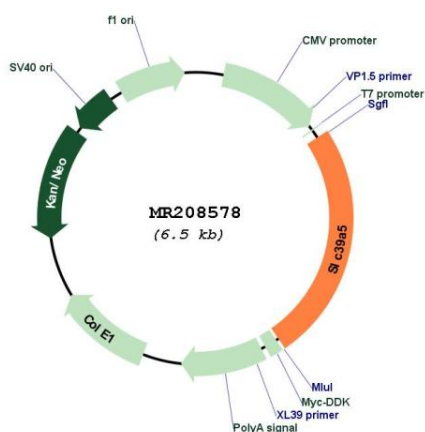
UniProt ID: [Q9D856](#)

Cytogenetics: 10 D3

MW: 56.3 kDa

Gene Summary: May play a role in polarized cells by carrying out serosal-to-mucosal zinc transport. Plays a role in eye development. Could regulate the BMP/TGF-beta (bone morphogenetic protein/transforming growth factor-beta) signaling pathway and modulates extracellular matrix (ECM) proteins of the sclera (PubMed:24891338). Seems to play a central role in controlling organismal zinc status.[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208578