

Product datasheet for **MG208578**

Slc39a5 (NM_028092) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a5 (NM_028092) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc39a5
Synonyms:	1810013D05Rik; 2010205A06Rik; Zip5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208578 representing NM_028092
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGGGCCCCAGTACATCATCTGCTGACTGGCCTATGTGTGGGGGTGGCCTTGGGCTGGGTAGGAGGCT
 CCGTCCCAAACCTGGGCCAGCTGAACAGGAACAGAACCCTACCTGGCCAGTTGTTTGGTCTATATGG
 AGAGAACGGGACACTGACTGCAGGGGGCCTGGCGCGGCTTCTCCACAGCCTAGGACTAGGCCGAGTCCAG
 GGGCTCCGTCTGGGACACCATGAGCCTCCAAGTGGGCGGGCTGCACCCACAAGTGGAGACAATTTACAC
 ACAGGCTGCAAGAGCCGAGCTGAGTGTGGACATCTGGGCAGGAATGCCTCTGGGCCCTTCAGGTTGGGG
 TGACCAGGAGGAATCAAAGGCTCCTGACCTGCACGGGTGAGGGCCCTCGAGCCTAGACCTCTTCAGAGG
 CTTCTGCTGTTGGACATTCTGTTGGCTGACCATCTGAATGAGGATTGTCTGAATGGCTCCAGCTGCTGG
 TCAATTTTGGACTGAGCCCTGTTGCTCCTGACCCCTCGTCAGTTCGCTCTGCTGTGCCAGCCCTGCT
 TTATCAGATTGACAGCCGTGTTTGCATCAAAACCCAGCTCCAGCACCTCCGGGGGATGTACTGTCTGCC
 CTGCTTCACAGTGGCCTGGCAGTCTGTTCTCAGCCTCCCTGCTCCCTCTCTCTGCTGTTGTGCGGC
 TCCTGGGACCTCGTCTGTTGCGGCCAGTCTGGGCTTCCTGGGGGCCCTGGCCGTGGGTACTCTCTGTGG
 GGATGCCCTGCTACACCTGCTCCACATGCGCAAGGAGGGCGGCACACAGGACCTAGTGAGCAATCAGAG
 GAGGACCTGGGTCCGGGACTGTCGGTGCTTGGTGGCCTCTTCTGCTCTTCATGCTAGAGAACACACTAG
 GACTTGTGCGGCACAGAGGGCTCAGGCCAAGATGCTGCAGGAACAAAAGGATCTTGAGAACCAAAACC
 TGACCCAGAGGATGGCAGTGGGATGGTCTTCGACCCCTACAGGCAGCTTCAGAACAGAGGTTCAAGGC
 CAGAGGGAGAACAGACAGTCTCACCATCTCTAGCCCTCCTGGGCACCAAGGCCACAGCCATGAGCACC
 GGGGTGGCAGTATCGCATGGATGGTCTCCTGGGAGATTGCCTGCACAACCTACCGACGGGCTGGCATT
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 CCCCACGAACTGGGTGACTTTGCCATGCTGCTTACGGAAGGGTTATCCTTTCGGAAGCTGCTGCTGCTGA
 GCCTCGTTTCTGGAGCCCTGGGACTGGGGGTGCAGCCCTGGGGGTGGGGCTCAGCTTGGGCCCTGTGCC
 CCTCACCCCTGGGTGTTTGGGACCAGGCTGGGGTTTCTCTATGTGGCCCTAGTGGATATGCTGCCA
 ACCCTGCTTCGCTCCTGAGCCCTGCCTGTGTTCCACGTGCTTCTGCAGGGGTGGGGCTGCTACTGG
 GGGGCAGCCTCATGTTTACCATAGCCCTATTGGAGGAGCAGCTAGTGCCACGGTTCCTGACGGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG208578 representing NM_028092
 Red=Cloning site Green=Tags(s)

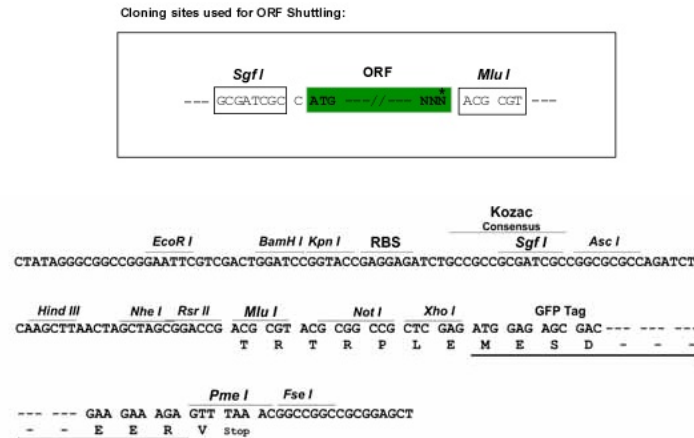
MGPPVHLLTGLCVGVALGWVGSVPNLGPAEQEQNHLYLAQLFGLYGENGTLAGGLARLLHSLGLGRVQ
 GLRLGHHEPPTGRAAPTSQDNFTHRLQEPELSVDIWAGMPLGPSGWGDQEEKAPDLHGSGPSSLDLFQR
 LLLLDHSLADHLNEDCLNGSQLLVNFGSLSPVAPLTPRQFALLCPALLYQIDSRVCIKTPAPAPPGDVL
 LLHSGLAFLSLPAPLSLLLLRLLGPRLRPVLFGLGALAVGTLCGDALLHLLPHAQGGRRHTGPSEQSE
 EDLGPGLSVLGGFLFLMLENTLGLVRHRLRPCCRNKRDLGEPNPDPEGSGMVLRLQAASEPEVQG
 QRENRSQSSPSLAPPGHQHSHEHRGGSIAWMVLLGDCLHNLTDGLALGAAFSDGFSSGLSTTLAVFCH
 PHELGFDFAMLLQEGLSFRKLLLLSLVSGALGLGGAALGVLSLGPVPLTPWVFGTTAGVFLYVALVDMLP
 TLLRPPEPLPVFHVLLQGLGLLLGGSLMFTIALLEEQLVPTVPDG

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-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: 1902 bp

RefSeq ORF: 1608 bp

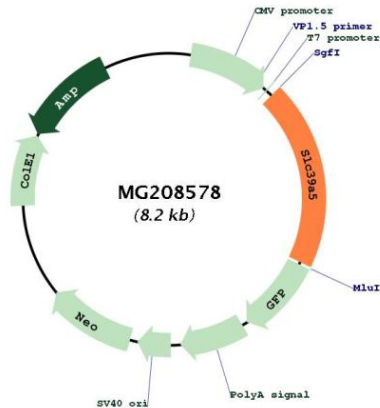
Locus ID: 72002

UniProt ID: [Q9D856](#)

Cytogenetics: 10 D3

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 MG208578