

## Product datasheet for **MC204119**

### Slc39a5 (NM\_028051) Mouse Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc39a5 (NM_028051) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc39a5
Synonyms:	1810013D05Rik; 2010205A06Rik; Zip5
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



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**Fully Sequenced ORF:** >BC028990  
 CCTGTCCTGCCGTGAGCCCTCCTTGTGACGTGGCTTCCACTGCATCTGAAGGCTGAGCTCCTTCCCTCGG  
 ATCTCCTAAGGTCCACAGTGAGGCCCTCCAGGGACCTGAGGGTACAGTCCCTCAGGATGTCTCAAAGGAAA  
 TAGAAGTCAGAAACAGAGCCTCTAACCATAGCCCTAGTGATGGGGCCCCAGTACATCATCTGCTGACTG  
 GCCTATGTGTGGGGTGGCCTTGGGCTGGGTAGGAGGCTCCGTCCCAAACCTGGGCCAGCTGAACAGGA  
 ACAGAACCCTACCTGGCCAGTTGTTTGGTCTATATGGAGAGAACGGGACACTGACTGCAGGGGGCCTG  
 GCGCGGCTTCTCCACAGCCTAGGACTAGGCCGAGTCCAGGGCTCCGTCTGGGACACCATGAGCCTCCAA  
 CTGGGCGGGCTGCACCCACAAGTGGAGACAATTTACACACAGGCTGCAAGAGCCGGAGCTGAGTGTGGA  
 CATCTGGGCAGGAATGCCTCTGGGCCCTCAGGTTGGGGTGACAGGAGGAATCAAAGGCTCCTGACCTG  
 CACGGGTGAGGGCCCTCGAGCCTAGACCTCTCCAGAGGCTTCTGCTGTTGGACATTGTTGGCTGACC  
 ATCTGAATGAGGATTGTCTGAATGGCTCCAGCTGCTGGTCAATTTGGACTGAGCCCTGTTGCTCCTCT  
 GACCCCTCGTCAGTTCGCTCTGCTGTGCCAGCCCTGCTTATCAGATTGACAGCCGTGTTTGCATCAA  
 ACCCCAGCTCCAGCACCTCCGGGGGATGTACTGTCTGCCCTGCTTACAGTGGCCTGGCAGTCTGTTCC  
 TCAGCCTCCCTGCTCCCCTCTCTGCTGTTGCTGCGGCTCCTGGGACCTCGTCTGTTGCGGCCAGTGT  
 GGGCTTCTGGGGCCCTGGCCGTGGTACTCTCTGTGGGGATGCCCTGTACACCTGCTCCACATGCG  
 CAAGGAGGGCGGCACACAGGACCTAGTGAGCAATCAGAGGAGGACCTGGGTCCGGGACTGTGCGTGTG  
 GTGGCCTTCTCCTGCTCTTCATGCTAGAGAACACACTAGGACTTGTGCGGCACAGAGGGCTCAGGCCAAG  
 ATGCTGCAGGAACAAAAGGGATCTTGGAGAACCAAACCTGACCCAGAGGATGGCAGTGGGATGGTCTT  
 CGACCCCTACAGGCAGCTTCAGAACCAGAGGTTGAGGGCCAGAGGGAGAACAGACAGTCCCTACCATCTC  
 TAGCCCTCCTGGGCACCAAGGCCACAGCCATGAGCACCAGGGGTGGCAGTATCGCATGGATGGTCTCCT  
 GGGAGATTGCCTGCACAACCTCACCGACGGGTGGCATTAGGTGCTGCTTCTCAGACGGCTTCTCCAGT  
 GGCCTCAGCACTACCCTAGCAGTCTTCTGCCACGAGCTGCCCCACGAACCTGGGTGACTTTGCCATGCTGC  
 TTCAGGAAGGGTTATCCTTTTCGGAAGCTGCTGCTGAGCCTCGTTTCTGGAGCCCTGGGACTGGGGGG  
 TGCAGCCCTGGGGTGGGGCTCAGCTTGGGCCCTGTGCCCTCACCCCTGGGTGTTGGGACCACGGCT  
 GGGTTTTCTCTATGTGGCCCTAGTGGATATGCTGCCAACCCCTGCTTCGTCCTCCTGAGCCCTGCCTG  
 GTTCCACGTGCTTCTGCAGGGGCTGGGGCTGCTACTGGGGGACGCTCATGTTTACCATAGCCCTATT  
 GGAGGAGCAGCTAGTGCCACGGTTCCTGACGGCTGATGTGGGCCAGTGGCAGAGGATCCAGGTTGCCCT  
 TCCTTCCCCCACCACAGGAATGGAGGGGGACACAGGGCCAGTAGGAGCAATAGGATTTTAATAAACAG  
 AACCCATCCCAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

**Restriction Sites:** RsrII-NotI

**ACCN:** NM\_028051

**Insert Size:** 1608 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**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: [BC028990](#), [AAH28990](#)

RefSeq Size: 1931 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]  
Transcript Variant: This variant (1) represents the longest transcript. Variants 1, 2 and 3 encode the same protein.