

Product datasheet for **MC218624**

Slc17a5 (BC058785) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc17a5 (BC058785) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc17a5
Synonyms:	4732491M05, SD, AST, NSD, SLD, ISSD, SIASD, SIALIN
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >BC058785
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCCCGCATCGCC

ATGAGGCCCTGCTTCGGGGTCCGGCGGAAACGACGATGAGGAGAGCTCGGACAGCACCCCGCTCCTGC
 CGGGCGCCCGGCAGACCGAAGCGGCTCCAGTGTGCTGCTGCTCGGTACAACCTTAGCGATTTTGGCGTT
 CTGTGGTTTCTTCGTTCTCTATGCCTTACGGGTGAACCTGAGTGTGCGTTAGTGACATGGTAGATTCA
 AATACAACCTGACTGATAATAGAACGTCTAAGGAGTGTGCGGAACATTCTGCCCCATAAAAGTTCACC
 ACAATCACACAATTCCCGGTGGGTACATTGCCAGCAGGGTCGGAGGGAAGCTGCTGCTGGCCTGGGCAT
 CTTAGGCACCTCCGTCTTACCCTGTTCACACCCTGGCCGACAGCTTAGCGTGGTGACTCTCGTTGTG
 CTTAGAGCGCTGGAAGGACTGGGAGAGGGTGTACGTTTCCAGCTATGCACGCCATGTGGTCTTCTGCG
 CTCGCCCTCTGGAAGAAGCAAGCTTCTTACCATTTCTATGCGGGAGCACAGCTTGGGACAGTGATCTC
 ACTTCCTCTTCCGGAATAATATGCTACTATATGAACTGGACTTACGTCTTCTATCTTTTGGTATAGTT
 GGAATTGTCTGGTTTATTTTATGGATGTGGATAGTCAGTGATACACCAGAACTACAAGACAATCTCCC
 ATTATGAAAAAGAATACATTGTTTCATCATTAAAAAATCAGCTTCTTCCGAGAAGGTGGTGCCGTGGGG
 GTCCATCTTGAAGTCACTGCCACTTTGGCAATTGTGGTAGCACATTTCTCCTACAACCTGGTCTTTTAC
 ACCTTATTGACGCTACTGCCAATTATGAAGGAAATCCTAAGGTTCAATGTTCAAGAGAACGGGTTTT
 TATCTGCATTGCCTATTTTGGCTGTGGTTATGCATGATCCTCTGTGGTCAAGCCGCTGACTATTTAAG
 GGTC AAGTGAACCTTTCAACTATAAGCGTTCCGAGAAATTTTAGCCTCGTAGGAATGGTTGGCCCTGCG
 GTTTTCTAGTCGCGGCTGGATTTATAGGCTGTGACTATTCCTTGGCCGTTGCGTTCCTAACCATATCCA
 CGACGCTGGGAGGCTTCGCCTCTTCTGGATTTAGCATCAACCCTGATATCGTCTCCTCGTATGCTGG
 CATCCTCTTGGGCATCACAAACACGTTTGGCACTATTCCCGGGATGACGGGACCCATATTGCTAAAAGT
 CTGACCCCTGATAACACTATTAGGGAATGGCAGACTGTCTTCTGTATCGCTGCTGTATTAACGTGTTTG
 GGGCCATTTTCTCACGCTGTTTGC AAAGGGGAGTGCAGAGCTGGGCTCTCAGTGACCACCACGGACA
 CAGAAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCTGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: Sgfl-MluI

ACCN: BC058785

Insert Size: 1410 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: [BC058785](#), [AAH58785](#)

RefSeq Size: 3152 bp

RefSeq ORF: 1409 bp

Locus ID: 235504

Cytogenetics: 9 E1

Gene Summary: Transports glucuronic acid and free sialic acid out of the lysosome after it is cleaved from sialoglycoconjugates undergoing degradation, this is required for normal CNS myelination. Mediates aspartate and glutamate membrane potential-dependent uptake into synaptic vesicles and synaptic-like microvesicles. Also functions as an electrogenic 2NO₃(-)/H⁽⁺⁾ cotransporter in the plasma membrane of salivary gland acinar cells, mediating the physiological nitrate efflux, 25% of the circulating nitrate ions is typically removed and secreted in saliva (By similarity).[UniProtKB/Swiss-Prot Function]