

Product datasheet for **MC217065**

Slc17a5 (NM_172773) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc17a5 (NM_172773) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc17a5
Synonyms:	4631416G20Rik; 4732491M05; AST; ISSD; NSD; SD; SIALIN; SIASD; SLD
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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Fully Sequenced ORF: >MC217065 representing NM_172773
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCCCTGCTTCGGGGTCCGGCGGAAACGACGATGAGGAGAGCTCGGACAGACCCCGCTCCTGC
 CGGGCGCCCGGCAGACCGAAGCGGCTCCAGTGTGCTGCTGCTCGGTACAACCTTAGCGATTTTGGCGTT
 CTGTGGTTTCTCGTTCTATGCCTTACGGGTGAACCTGAGTGTGCGTTAGTGGACATGGTAGATTCA
 AATACAACCTGACTGATAATAGAACGTCTAAGGAGTGTGCGGAACATTCTGCCCCATAAAAGTTCACC
 ACAATCACACAGGTAAAAGTACAAGTGGGATGCAGAACTCAAGGGTGGATTCTCGGCTTTTTTTTTTA
 CGGCTACATCGTCACCCAGATCCCGTGGGTACATTGCCAGCAGGGTCGGAGGGAAGCTGCTGCTGGGC
 CTGGGCATCTTAGGCACCTCCGTCTTACCCTGTTACACCGCTGGCCGAGACTTAGGCGTGGTGACTC
 TCGTTGTGCTTAGAGCGCTGGAAGGACTGGGAGAGGGTGTACGTTTCCAGCTATGCACGCCATGTGGTC
 TTCTGGGCTCCCTCTGGAAAGAAGCAAGCTTCTTACCATTTCTATGCGGGAGCACAGCTTGGGACA
 GTGATCTCACTTCTTCCGGAATAATGCTACTATATGAACTGGACTTACGCTTCTATCTTTTTG
 GTATAGTTGGAATTGCTGGTTATTTATGGATGTGGATAGTCAGTGATACACCAGAACTCACAAGAC
 AATCTCCATTATGAAAAAGAATACATTGTTTCATCATTAAAAATCAGCTTTCTTCGCAGAAGGTGGTG
 CCGTGGGGTCCATCTTGAAGTCACTGCCACTTTGGGCAATTGTGGTAGCACATTTCTCCTACAAGTGGT
 CTTTTTACACCTATTGACGCTACTGCCAATTATGAAGGAAATCCTAAGGTTCAATGTTCAAGAGAA
 CGGGTTTTATCTGCATTGCCTATTTTGGCTGTTGGTTATGCATGATCCTCTGTGGTCAAGCCGCTGAC
 TATTTAAGGGTCAAGTGAACCTTTCACTATAAGCGTTCGGAGAATTTTAGCCTCGTAGGAATGGTTG
 GCCCTCGGTTTTCTAGTCGCGGCTGGATTTATAGGCTGTGACTATTCCTTGGCCGTTGCGTTCCTAAC
 CATATCCACGACGCTGGGAGGCTTCGCCTCTTCTGGATTTAGCATCAACCATCTGGATATCGCTCCTTCG
 TATGCTGGCATCCTTGGGCATCACAACACGTTTGCCACTATTCGCGGATGACGGGACCCATCATTG
 CTAAGTCTGACCCCTGATAACACTATTAGGGAATGGCAGACTGCTTCTGTATCGCTGCTGCTATTAA
 CGTGTGGGGCCATTTCTTACGCTGTTTGCCAAAGGGGAAGTGCAGAGCTGGGCTCTCAGTGACCAC
 CACGGACACAGAACTGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Restriction Sites: SgfI-MluI

ACCN: NM_172773

Insert Size: 1488 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: [NM_172773.3](#), [NP_766361.1](#)

RefSeq Size: 3241 bp

RefSeq ORF: 1488 bp

Locus ID: 235504

UniProt ID: [Q8BN82](#)

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 2NO(3)(-)/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]
Transcript Variant: This variant (1) represents the longer transcript and encodes the longer isoform (a).