

Product datasheet for **MC227857**

Slc17a5 (NM_001276452) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc17a5 (NM_001276452) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc17a5
Synonyms:	4631416G20Rik; 4732491M05; AST; ISSD; NSD; SD; SIALIN; SIASD; SLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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Fully Sequenced ORF: >MC227857 representing NM_001276452
 Red=Cloning site Blue=ORF Orange=Stop codon

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGAGGCCCTGCTTCGGGGTCCGGCGGAAACGACGATGAGGAGAGCTCGGACAGCACCCCGCTCCTGC
 CGGGCGCCCGCAGACCGAAGCGGCTCCAGTGTGCTGCTGCTCGGTACAACCTTAGCGATTTTGGCGTT
 CTGTGGTTTCTCGTTCTCTATGCCTTACGGGTGAACCTGAGTGTGCGTTAGTGGACATGGTAGATTCA
 AATACAACCTGACTGATAATAGAACGTCTAAGGAGTGTGCGGAACATTCTGCCCCATAAAAGTTCACC
 ACAATCACACAATTCCCGGTGGGTACATTGCCAGCAGGGTCGGAGGGAAGCTGCTGCTGGCCTGGGCAT
 CTTAGGCACCTCCGTCTTACCCTGTTACACCCTGGCCGACACTTAGCGTGGTGACTCTCGTTGTG
 CTTAGAGCGCTGGAAGGACTGGGAGAGGGTGTACGTTTCCAGCTATGCACGCCATGTGGTCTTCTGGG
 CTCCCCCTCTGGAAGAAGCAAGCTTCTTACCATTTCTATGCGGGAGCACAGCTTGGGACAGTGATCTC
 ACTTCCTCTTCCGGAATAATATGCTACTATATGAACTGGACTTACGTCTTCTATCTTTTTGGTATAGTT
 GGAATTGTCTGGTTTATTTTATGGATGTGGATAGTCAGTGATACACCAGAACTCACAAGACAATCTCCC
 ATTATGAAAAAGAATACATTGTTTCATCATTAAAAAATCAGCTTCTTCCGAGAAGGTGGTGCCGTGGGG
 GTCCATCTTGAAGTCACTGCCACTTTGGCAATTGTGGTAGCACATTTCTCTACAACCTGGTCTTTTTAC
 ACCTTATTGACGCTACTGCCAATTATATGAAGGAAATCCTAAGGTTCAATGTTCAAGAGAACGGGTTTT
 TATCTGCATTGCCTTATTTTGGCTGTGGTTATGCATGATCCTCTGTGGTCAAGCCGCTGACTATTTAAG
 GGTC AAGTGAACCTTTCAACTATAAGCGTTCGGAGAATTTTAGCCTCGTAGGAATGGTTGGCCCTGCC
 GTTTTCTAGTCGCGGCTGGATTTATAGGCTGTGACTATTCCTTGGCCGTTGCGTTCCTAACCATATCCA
 CGACGCTGGGAGGCTTCGCCTCTTCTGGATTTAGCATCAACCCTGGATATCGTCTCCTCGTATGCTGG
 CATCCTCTTGGGCATCACAAACACGTTTGGCACTATTCCCGGGATGACGGGACCCATCATTGCTAAAAGT
 CTGACCCCTGATAAACAATTAGGGAATGGCAGACTGTCTTCTGTATCGCTGCTGTATTAACGTGTTTTG
 GGGCCATTTTCTCACGCTGTTTGCCAAAGGGGAAGTGCAGAGCTGGGCTCTCAGTGACCACCACGGACA
 CAGAAAC**TGA**

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

- Restriction Sites:** SgfI-MluI
- ACCN:** NM_001276452
- 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).
- OTI Annotation:** Clone contains native stop codon, and expresses the complete ORF without any c-terminal tag.
- 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_001276452.1](#), [NP_001263381.1](#)

RefSeq Size: 3163 bp

RefSeq ORF: 1410 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 (2) uses an alternate in-frame splice site in the coding region, compared to variant 1. It encodes isoform b which is shorter than isoform a.