

## Product datasheet for **MR230068**

### Slc17a5 (NM\_001276452) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc17a5 (NM_001276452) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR230068 representing NM\_001276452  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGCCCTGCTTCGGGGTCCGGCGGAAACGACGATGAGGAGAGCTCGGACAGACCCCGCTCCTGC  
 CGGGCGCCCGCAGACCGAAGCGGCTCCAGTGTGCTGCTGCTCGGTACAACCTAGCGATTTTGGCGTT  
 CTGTGGTTTCTTCTGTTCTATGCCTTACGGGTGAACCTGAGTGTGCGTTAGTGACATGGTAGATTCA  
 AATACAACCTGACTGATAATAGAACGTCTAAGGAGTGTGCGGAACATTCTGCCCCATAAAAGTTCACC  
 ACAATCACACAATTCCCGGTGGGTACATTGCCAGCAGGGTCGGAGGGAAGCTGCTGCTGGCCTGGGCAT  
 CTTAGGCACCTCCGTCTTACCCTGTTACACCCTGGCCGACACTTAGCGTGGTGACTCTCGTTGTG  
 CTTAGAGCGCTGGAAGGACTGGGAGAGGGTGTACGTTTCCAGCTATGCACGCCATGTGGTCTTCTGCG  
 CTCGCCCTCTGGAAGAAGCAAGCTTCTTACCATTTCTATGCGGGAGCACAGCTTGGGACAGTGATCTC  
 ACTTCCTCTTCCGGAATAATATGCTACTATATGAACTGGACTTACGTCTTCTATCTTTTTGGTATAGTT  
 GGAATTGTCTGGTTTATTTTATGGATGTGGATAGTCAGTGATACACCAGAACTACAAGACAATCTCCC  
 ATTATGAAAAAGAATACATTGTTTCATCATTAAAAAATCAGCTTCTTCCGAGAAGGTGGTGCCGTGGGG  
 GTCCATCTTGAAGTCACTGCCACTTTGGCAATTGTGGTAGCACATTTCTCCTACAACCTGGTCTTTTAC  
 ACCTTATTGACGCTACTGCCAATTATATGAAGGAAATCCTAAGGTTCAATGTTCAAGAGAACGGGTTTT  
 TATCTGCATTGCCTATTTTGGCTGTGGTTATGCATGATCCTCTGTGGTCAAGCCGCTGACTATTTAAG  
 GGTCAGTGGAACTTTCAACTATAAGCGTTCGGAGAATTTTAGCCTCGTAGGAATGGTTGGCCCTGCG  
 GTTTTCTAGTCGCGGCTGGATTTATAGGCTGTGACTATTCCTTGGCCGTTGCGTTCCTAACCATATCCA  
 CGAGCTGGGAGGCTTCGCCTCTTCTGGATTTAGCATCAACCATCTGGATATCGTCTCCTCGTATGCTGG  
 CATCCTCTTGGGATCACAAACACGTTTGGCACTATTCCCGGGATGACGGGACCCATCATTGCTAAAAGT  
 CTGACCCCTGATAAACAATTAGGGAATGGCAGACTGTCTTCTGTATCGCTGCTGTATTAACGTGTTTG  
 GGGCCATTTTCTCACGCTGTTTGCCAAAGGGGAAGTGCAGAGCTGGGCTCTCAGTGACCACCACGGACA  
 CAGAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR230068 representing NM\_001276452  
 Red=Cloning site Green=Tags(s)

MRPLL RGPAGNDDEESSDSTPLLPGARQTEAAPVCCSARYNLA ILAFCGFFVLYALRVNLSVALVDMVDS  
 NTTLTDNRTSKECAEHSAPIKVHHNHTIPGGYIASRVGGKLLGLGILGTSVFTLFTPLAADLGVVTLVV  
 LRALEGLGEGVTFPAMHAMWSSWAPPLERSKLLTISYAGQLGTVISLPLSGIICYMMNWTYVFLFGIV  
 GIVWFILMMWIVSDTPETHKTI SHYEKEYIVSSLKNQLSSQKVPWGSILKSLPLWAIIVVAHFSYNWSFY  
 TLLTLLPTYMKEILRFNVQENGFLSALPYFGWLCMILCGQAADYLRVKWNFSTISVRRIFSLVGMVGP  
 A VFLVAAGFIGDYSLAVAFLLTISTLGGFASSGFSINHLDIAPSYAGILLGITNTFATIPGMTGPIIAKS  
 LTPDNTIREWQTVFCIAAAINVFGAIFFTLFAKGEVQSWALSDHHGHRN

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI



**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

**MW:** 51.8 kDa

**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]