

## Product datasheet for **MR207507**

### **Slc17a5 (BC058785) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc17a5 (BC058785) Mouse Tagged ORF Clone
Tag:	Myc-DDK
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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**ORF Nucleotide Sequence:**

>MR207507 representing BC058785  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGAGGCCCTGCTTCGGGGTCCGGCGGAAACGACGATGAGGAGAGCTCGGACAGCACCCCGCTCCTGC  
 CGGGCGCCCGCAGACCGAAGCGGCTCCAGTGTGCTGCTCTGCTCGGTACAACCTTAGCGATTTTGGCGTT  
 CTGTGGTTTCTTCTGTTCTATGCCTTACGGGTGAACCTGAGTGTGCGTTAGTGACATGGTAGATTCA  
 AATACAACCTGACTGATAATAGAACGTCTAAGGAGTGTGCGGAACATTCTGCCCCATAAAAGTTCACC  
 ACAATCACACAATTCCCGGTGGGTACATTGCCAGCAGGGTCGGAGGGAAGCTGCTGCTGGCCTGGGCAT  
 CTTAGGCACCTCCGTCTTACCCTGTTACACCCTGGCCGACACTTAGGCGTGGTGACTCTCGTTGTG  
 CTTAGAGCGCTGGAAGGACTGGGAGAGGGTGTACGTTTCCAGCTATGCACGCCATGTGGTCTTCTGCG  
 CTCGCCCTCTGGAAGAAGCAAGCTTCTTACCATTTCCTATGCGGGAGCACAGCTTGGGACAGTGATCTC  
 ACTTCCTCTTCCGGAATAATATGCTACTATATGAACTGGACTTACGTCTTCTATCTTTTGGTATAGTT  
 GGAATTGTCTGGTTTATTTTATGGATGTGGATAGTCAGTGATACACCAGAACTACAAGACAATCTCCC  
 ATTATGAAAAAGAATACATTGTTTCATCATTAAAAAATCAGCTTCTTCCGAGAAGTGGTGCCGTGGGG  
 GTCCATCTTGAAGTCACTGCCACTTTGGCAATTGTGGTAGCACATTTCTCCTACAACCTGGTCTTTTAC  
 ACCTTATTGACGCTACTGCCAATTATATGAAGGAAATCCTAAGGTTCAATGTTCAAGAGAACGGGTTTT  
 TATCTGCATTGCCTATTTTGGCTGTGGTTATGCATGATCCTCTGTGGTCAAGCCGCTGACTATTTAAG  
 GGTCAGTGGAACTTTCAACTATAAGCGTTCGGAGAATTTTAGCCTCGTAGGAATGGTTGGCCCTGCG  
 GTTTTCTAGTCGCGGCTGGATTTATAGGCTGTGACTATTCCTTGGCCGTTGCGTTCCTAACCATATCCA  
 CGAGCTGGGAGGCTTCGCCTCTTCTGGATTTAGCATCAACCATCTGGATATCGTCTCCTCGTATGCTGG  
 CATCCTCTTGGGATCACAAACACGTTTGGCACTATTCCCGGATGACGGGACCCATCATTGCTAAAAGT  
 CTGACCCCTGATAACACTATTAGGGAATGGCAGACTGTCTTCTGTATCGCTGCTGTATTAACGTGTTTG  
 GGGCCATTTTCTCACGCTGTTTGCCTAAAGGGGAGTGCAGAGCTGGGCTCTCAGTGACCACCACGGACA  
 CAGAAAC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR207507 representing BC058785  
 Red=Cloning site Green=Tags(s)

MRPLL RGPAGNDDEESSDSTPLLPGARQTEAAPVCCSARYNLA ILAFCGFFVLYALRVNLSVALVDMVDS  
 NTTLTDNRTSKECAEHSAPIKVHHNHTIPGGYIASRVGGKLLGLGILGTSVFTLFTPLAADLGVVTLVV  
 LRALEGLGEGVTFPAMHAMWSSWAPPLERSKLLTISYAGAQLGTVISLPLSGIICYMMNWTYVYFLFGIV  
 GIVWFILMMWIVSDTPETHKTI SHYEKEYIVSSLKNQLSSQKVPWGSILKSLPLWAIIVVAHFSYNWSFY  
 TLLTLLPTYMKEILRFNVQENGFLSALPYFGWLCMILCGQAADYLRVKWNFSTISVRRIFSLVGMVGP  
 VFLVAAGFIGDYSLAVAFLLTISTLGGFASSGFSINHLDIAPSYAGILLGITNTFATIPGMTGPIIAKS  
 LTPDNTIREWQTVFCIAAAINVFGAIFFTLFAKGEVQSWALSDHHGHRN

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

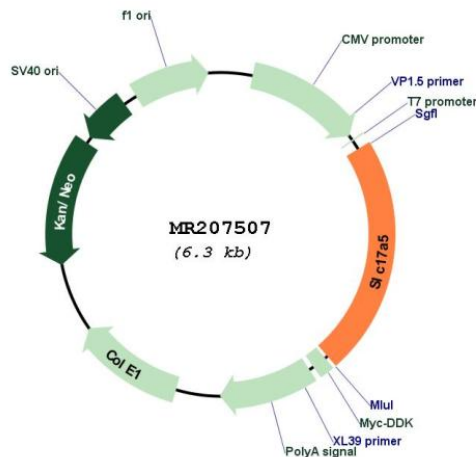
**Restriction Sites:**

SgfI-MluI

Cloning Scheme:



Plasmid Map:



ACCN: BC058785

ORF Size: 1407 bp

OTI Disclaimer: The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation: This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.

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:** [BC058785.1](#)

**RefSeq Size:** 3152 bp

**RefSeq ORF:** 1409 bp

**Locus ID:** 235504

**Cytogenetics:** 9 E1

**MW:** 115.5 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]