

Product datasheet for **MG207507**

Slc17a5 (BC058785) Mouse Tagged ORF Clone

Product data:

| | |
|---------------------------|--|
| Product Type: | Expression Plasmids |
| Product Name: | Slc17a5 (BC058785) Mouse Tagged ORF Clone |
| Tag: | TurboGFP |
| Symbol: | Slc17a5 |
| Synonyms: | 4732491M05, SD, AST, NSD, SLD, ISSD, SIASD, SIALIN |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



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ORF Nucleotide Sequence:

>MG207507 representing BC058785
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGCCCTGCTTCGGGGTCCGGCGGAAACGACGATGAGGAGAGCTCGGACAGACCCCGCTCCTGC
 CGGGCGCCCGCAGACCGAAGCGGCTCCAGTGTGCTGCTGCTCGGTACAACTTAGCGATTTTGCGGTT
 CTGTGGTTTTCTCGTTCTCTATGCCTTACGGGTGAACCTGAGTGTGCGTTAGTGACATGGTAGATTCA
 AATACAACCTGACTGATAATAGAACGTCTAAGGAGTGTGCGGAACATTCTGCCCCATAAAAGTTCACC
 ACAATCACACAATTCCCGGTGGGTACATTGCCAGCAGGGTCGGAGGGAAGCTGCTGCTGGCCTGGGCAT
 CTTAGGCACCTCCGTCTTACCCTGTTACACCCGCTGGCCGACACTTAGCGTGGTGACTCTCGTTGTG
 CTTAGAGCGCTGGAAGGACTGGGAGAGGGTGTACGTTTCCAGCTATGCACGCCATGTGGTCTTCTGCG
 CTCGCCCTCTGGAAGAAGCAAGCTTCTTACCATTTCTATGCGGGAGCACAGCTTGGGACAGTGATCTC
 ACTTCCTCTTCCGGAATAATATGCTACTATATGAAGTGGACTTACGTTCTCTATCTTTTGGTATAGTT
 GGAATTGTCTGGTTTATTTTATGGATGTGGATAGTCAGTGATACACCAGAACTACAAGACAATCTCCC
 ATTATGAAAAAGAATAACATTGTTTCATCATTAAAAAATCAGCTTCTTCCGAGAAGGTGGTCCCGTGGGG
 GTCCATCTTGAAGTCACTGCCACTTTGGCAATTGTGGTAGCACATTTCTCCTACAACCTGGTCTTTTAC
 ACCTTATTGACGCTACTGCCAATTATATGAAGGAAATCCTAAGGTTCAATGTTCAAGAGAACGGGTTTT
 TATCTGCATTGCCTATTTTGGCTGTGGTTATGCATGATCCTCTGTGGTCAAGCCGCTGACTATTTAAG
 GGTCAGTGAACCTTTCAACTATAAGCGTTCCGAGAAATTTTAGCCTCGTAGGAATGGTTGGCCCTGCG
 GTTTTCTAGTCGCGGCTGGATTTATAGGCTGTGACTATTCCTTGGCCGTTGCGTTCCTAACCATATCCA
 CGACGCTGGGAGGCTTCGCTCTTCTGGATTTAGCATCAACCATCTGGATATCGTCTCCTTGTATGCTGG
 CATCCTCTTGGGATCACAAACACGTTTGCCACTATTCCCGGATGACGGGACCCATCATTGCTAAAAGT
 CTGACCCCTGATAACACTATTAGGGAATGGCAGACTGTCTTCTGTATCGCTGCTGTATTAACGTGTTTG
 GGGCCATTTTCTCACGCTGTTTGCCAAAGGGGAAGTGCAGAGCTGGGCTCTCAGTGACCACCACGGACA
 CAGAAAC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG207507 representing BC058785
 Red=Cloning site Green=Tags(s)

MRPLL RGPAGNDDEESSDSTPLLPGARQTEAAPVCCSARYNLAILAFCGFFVLYALRVNLSVALVDMVDS
 NTTLTDNRTSKECAEHSAPIKVHHNHTIPGGYIASRVGGKLLLGLGILGTSVFTLFTPLAADLGVVTLVV
 LRALEGLGEGVTFPAMHAMWSSWAPPLERSKLLTISYAGAQLGTVISLPLSGIICYMNWTYVYLFYLVGIV
 GIVWFILWMWIVSDTPETHKTISHYEKEYIVSSLKNQLSSQKVVVPWGSILKSLPLWAIIVVAHF SYNWSFY
 TLLTLLPTYMKEILRFNVQENGLSALPYFGWLCMILCGQAADYLRVKWNFSTISVRRIFSLVGMVGP
 VFLVAAGFIGDYSLAVAFITSTLGGFASSGFSINHLDIAPSYAGILLGITNTFATIPGMTGPIIAKS
 LTPDNTIREWQTVFCIAAAINVFGAIFFTLFAKGEVQSWALSDHHGHRN

TRTRPLE - GFP Tag - V

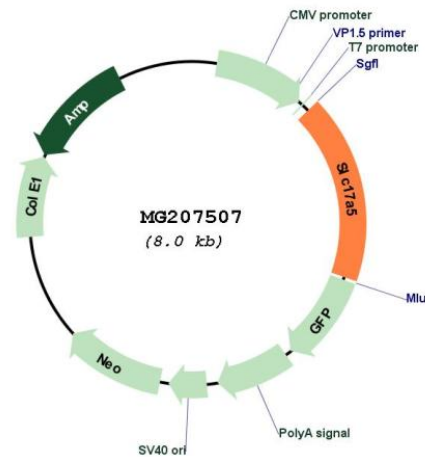
Restriction Sites:

Sgfl-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

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]