

## Product datasheet for **RG200795**

### SLC38A5 (NM\_033518) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC38A5 (NM_033518) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	SLC38A5
Synonyms:	JM24; pp7194; SN2; SNAT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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**ORF Nucleotide Sequence:**

>RG200795 representing NM\_033518  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAAGTGCAGGATCCAAAGATGAATGGAGCCCTCCCTTCGGATGCTGTGGGCTACAGGCAAGAACGTG  
 AGGGCTTCTGCCAGTCGTGGTCTGCTCCTGGGAGCAAGCCGGTCCAGTTCATGGATTCGAGGGGAA  
 GACATCGTTTGAATGTCAAGTGTCAACCTCAGCAACGCCATCATGGGCAGCGGCATCCTGGGGCTGGCC  
 TATGCCATGGCCACACGGGGTTCATCTTCTTCCCTGGCCCTGCTGCTGTGCATTGCGCTTCTGCTGCTCT  
 ACTCCATCCACCTCCTGCTGACCTGTGCTGGTATTGCAGGCATCCGAGCCTATGAGCAGCTGGGACAGAG  
 GGCATTCGGGCTGCGGGGAAGGTAGTGGTGGCCACAGTCATCTGTCTGCACAATGTTGGGGCCATGTCC  
 AGTTACCTGTTTCATCAAAATCTGAGCTCCCCCTGGTTATCGGCACCTCCTGTACATGGACCCCGAGG  
 GGGACTGGTCTTGAAGGAAACCTCCTCATCATCGTCAGTGTGTTAATCATCTGCCCTCGCCCT  
 CATGAAACACTTGGGCTACCTGGGTACACCAGTGGTCTCTCTGACCTGCATGCTGTTTTCTTCTGTT  
 TCGGTCATCTACAAGAAGTTCAACTTGGCTGTCTATAGGCCACAATGAAACAGCAATGGAGAGTGAAG  
 CTCTCGTGGGACTCCCCAGCAAGGACTCAACAGCAGCTGTGAGGCCAGATGTTACAGTTGACTCACA  
 GATGTCCTACACAGTGCCATTATGGCTTTTGGCTTTTGTCTGCCACCCTGAGGTGCTGCCATCTATACG  
 GAGCTCTGCCGGCCCTCCAAGCGCAGGATGCAGGCCGTGGCCAACGTGTCCATTGGGGCCATGTTCTGCA  
 TGTATGGGCTCACAGCAACCTTTGGATACCTCACCTTCTACAGCAGTGTGAAGGCGGAGATGCTGCACAT  
 GTACAGCCAGAAGGACCCGCTCATCCTCTGTGTGCGCCTGGCCGTGCTGCTCGCGGTGACCTCACTGTG  
 CCAGTCGTGCTGTTCCCTATCCGCCGGGCCCTGCAGCAGCTGCTTTCCAGGCAAGGCCCTCAGCTGGC  
 CACGACATGTGGCCATAGCTCTGATCCTGCTTGTGTTTGGTCAATGTCCTTGTGTCATGTTGCCAACCA  
 CCGGGATATCTTTGGAGTTATCGGGTCCACCTCAGCCCCCAGCCTCATCTTCATCCTCCCCAGCATCTTC  
 TACCTCCGATTGTACCCTCTGAGGTGGAGCCTTTCTTATCCTGGCCCAAGATCCAGGCCCTGTGCTTTG  
 GAGTCTGGGAGTCTCTTACGGCCGTGAGTCTAAGCTTTATGTTTGCCAACTGGGCCACAAGCCAGAG  
 CCGCATGTCTGGACAC

**ACGCGT**ACGCGGCCGCTCGAG – GFP Tag – GTTTAA

**Protein Sequence:**

>RG200795 representing NM\_033518  
 Red=Cloning site Green=Tags(s)

MELQDPKMNGALPSDAVGYRQEREGFLPSRGPAPGSKPVQFMDFEKTSFGMSVFNLSNAIMGSGILGLA  
 YAMAHTGVIFFLALLLCIALLSYSIHLLLTACAGIAGIRAYEQLGQRAFGPAGKVVVATVICLHNVGAMS  
 SYLFIIKSELPLVIGTFLYMDPEGDWFLKGNLLIIIVSVLIILPLALMKHLGYLGYTSGLSLTCMLFFLV  
 SVIYKFKQLGCAIGHNETAMESEALVGLPSQGLNSSCEAQMFTVDSQMSYTVPIMAFAFVCHPEVLIPT  
 ELCRPSKRRMQAVANVSIGAMFCMYGLTATFGYLTFFYSSVKAEMLMYSQKDPLILCVRLAVLLAVTLTV  
 PVVLFPIRRALQQLLFPKAFSWPRHVAIALILLVLVNVLVICVPTIRDFGVIGSTSAPSLIFILPSIF  
 YLRIVPSEVEPFLSWPKIQALCFGVLGVLFTAVSLSFMFANWATSQSRMSGH

**TRTRPLE** – GFP Tag – V

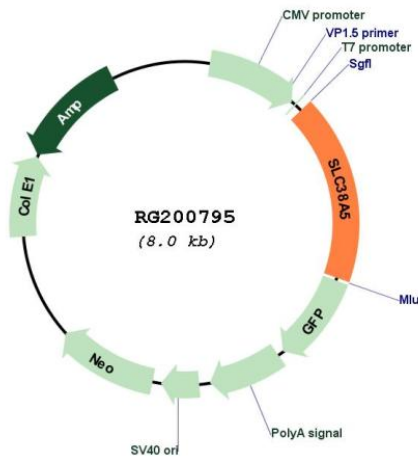
**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



Plasmid Map:



ACCN: NM\_033518

ORF Size: 1416 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:** [NM\\_033518.1](#), [NP\\_277053.1](#)

**RefSeq Size:** 2667 bp

**RefSeq ORF:** 1419 bp

**Locus ID:** 92745

**UniProt ID:** [Q8WUX1](#)

**Cytogenetics:** Xp11.23

**Protein Families:** Transmembrane

**Gene Summary:** The protein encoded by this gene is a system N sodium-coupled amino acid transporter. The encoded protein transports glutamine, asparagine, histidine, serine, alanine, and glycine across the cell membrane, but does not transport charged amino acids, imino acids, or N-alkylated amino acids. Alternative splicing results in multiple transcript variants, but the full-length nature of some of these variants has not been determined. [provided by RefSeq, Aug 2013]