

## Product datasheet for **SC324122**

### SLC17A5 (NM\_012434) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC17A5 (NM_012434) Human Untagged Clone
Tag:	Tag Free
Symbol:	SLC17A5
Synonyms:	AST; ISSD; NSD; SD; SIALIN; SIASD; SLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene sequence for NM\_012434.3  
 CCGGCCGCTCGGCCCGGGGCTTCGGGCTGTCGGGCCGGCGCTCCCTTCTCTGCCAGGTG  
 GCGAGTACACCTGCTCACGTAGGCGTCATGAGGTCTCCGGTTCGAGACCTGGCCCGAAC  
 GATGGCGAGGAGAGCACGACCGCACGCCTCTTCTACCGGGCGCCACGGGCCAAGCC  
 GCTCCAGTGTGCTGCTCTGCTCGTTACAACCTTAGCAATTTTGGCCTTTTTTGGTTTCTTC  
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 GTTCATCATAATCAAACGGGTAAGAAAGTACCAATGGGATGCAGAACTCAAGGATGGATT  
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GGACACAGACACTGAAGGAACCAATAAATAATCCTGCCTCTATTAATGTATTTTTATTTA
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ACTTGTATTAGATTTTTAAGGCCTATAATCATGAAATATCACTAGTTGCCAGAATAATAA
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TATAAATCATCAAAATAAACCTTTGTGAATTGAAAAAAAAAAAAAAAAAAAAA
    
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- Restriction Sites:** ECoRI-NOT
- ACCN:** NM\_012434
- 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:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.
- 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\\_012434.3](#), [NP\\_036566.1](#)

**RefSeq Size:** 3292 bp

**RefSeq ORF:** 1488 bp

**Locus ID:** 26503

**UniProt ID:** [Q9NRA2](#)

**Cytogenetics:** 6q13

**Domains:** sugar\_tr

**Protein Families:** Transmembrane

**Protein Pathways:** Lysosome

**Gene Summary:** This gene encodes a membrane transporter that exports free sialic acids that have been cleaved off of cell surface lipids and proteins from lysosomes. Mutations in this gene cause sialic acid storage diseases, including infantile sialic acid storage disorder and and Salla disease, an adult form. [provided by RefSeq, Jul 2008]