

Product datasheet for **RC201915**

SLC17A5 (NM_012434) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	SLC17A5 (NM_012434) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC17A5
Synonyms:	AST; ISSD; NSD; SD; SIALIN; SIASD; SLD
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RC201915 representing NM_012434
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGAGGTCTCCGGTTCGAGACCTGGCCCGAACGATGGCGAGGAGACACGGACCGCACGCCTCTTCTAC
 CGGGCGCCACACGGGCCAAGCCGCTCCAGTGTGCTGCTGCTGCTGTTACAACTTAGCAATTTGGCCTT
 TTTTGGTTTCTTATTGTGTATGCATTACGTGTGAATCTGAGTGTGCGTTAGTGGATATGGTAGATTCA
 AATACAACCTTTAGAAGATAATAGAACTTCCAAGGCATGTCAGAGCATTCTGCTCCATAAAAAGTTCATC
 ATAATCAAACGGTAAGAAGTACCAATGGGATGCAGAACTCAAGGATGGATTCTCGTTCTTTTTTTA
 TGGCTACATCATCACAGATTCTGGAGGATATGTTGCCAGCAAAATAGGGGGAAAATGCTGCTAGGA
 TTTGGGATCCTTGGCACTGCTGCTCACCCTGTTCACTCCCATTGCTGCAGATTTAGGAGTTGGACCAC
 TCATTGTACTCAGAGCACTAGAAGGACTAGGAGAGGGTGTACATTTCCAGCCATGCATGCCATGTGGTC
 TTCTTGGGCTCCCTCTTGAAGAAGCAAACTTCTTAGCATTTTATGCAGGAGCACAGCTTGGGACA
 GTAATTTCTCTTCTTCTTCTGGAATAATTTGCTACTATATGAATTGGACTTATGTCTTCTACTTTTTTG
 GACTATTGGAATATTTGGTTCTTTTGTGGATCTGGTTAGTTAGTGACACACCACAAAACACAAGAG
 AATTTCCATTATGAAAAGGAATACATTCTTTCATCATTAAAGAAATCAGCTTTCTTACAGAAAGTCAGTG
 CCGTGGGTACCCATTTTAAAATCCCTGCCACTTTGGGCTATCGTAGTTGCACACTTTTCTACAACCTGGA
 CTTTTTATACTTATTGACATTATTGCCTACTTATATGAAGGAGATCCTAAGGTTCAATGTTCAAGAGAA
 TGGGTTTTATCTTATTGCCTATTTAGGCTCTTGGTTATGTATGATCCTGTCTGGTCAAGCTGCTGAC
 AATTTAAGGGCAAAATGGAATTTTTCACTTTATGTGTTTCGAGAATTTTAGCCTTATAGGAATGATTG
 GACCTGCAGTATTCCTGGTAGCTGCTGGCTTCTTGGCTGATTATTCTTTGGCGTTGCTTTCCTAAC
 TATATCAACAACACTGGGAGGCTTTTGTCTTCTGGATTAGCATCAACCATCTGGATATTGCTCCTTCG
 TATGCTGGTATCCTCCTGGGCATCACAATAACATTTGCCACTATTCCAGGAATGTTGGGCCGTCATTG
 CTAAGAAGTCTGACCCCTGATAACACTGTTGGAGAATGGCAAACCGTGTCTATATTGCTGCTGCTATTAA
 TGTTTTTGGTGCATTTTCTTACTATTGCGCAAAGGTGAAGTACAAAACCTGGCTCTCAATGATCAC
 CATGGACACAGACAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC201915 representing NM_012434
 Red=Cloning site Green=Tags(s)

MRSPVRDLARNDGEESTDRTPLLPAPRAEAPVCCSARYNLAILAFFGFFIVYALRVNLSVALVDMVDS
 NTTLEDNRTSKACPEHSAPIKVHHNQTKKYQWDAETQGWILGSFFYGYIITQIPGGYVASKIGGKMLLG
 FGILGTAVLTLFTPIAADLGVGPLIVLRALEGLGEGVTFPAMHAMWSSWAPPLERSKLLSISYAGQLGT
 VISLPLSGIICYMNWTVYFYFFGTIGIFWLLWIWLVSDTPQKHKRISHYEKEYILSSLRNQLSSQKSV
 PWVPILKSLPLWAIVVAHFSYNWTFYLLTLLPTYMKEILRFNVQENGLSSLPYLGSWLCMILSGQAAD
 NLRKWNFSTLCVRRIFSLIGMIGPAVFLVAAGFIGDYSLAVAFLLISTTLGGFCSSGFSINHLDIAPS
 YAGILLGITNTFATIPGMVGPVIAKSLTPDNTVGEWQTVFYIAAAINVFGAIFFTLFAKGEVQNWALNDH
 HGHRH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja1699_g09.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_012434

ORF Size: 1485 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_012434.3](#), [NP_036566.1](#)

RefSeq Size: 3292 bp

RefSeq ORF: 1488 bp

Locus ID: 26503

UniProt ID: [Q9NRA2](#)

Cytogenetics: 6q13

Domains: sugar_tr

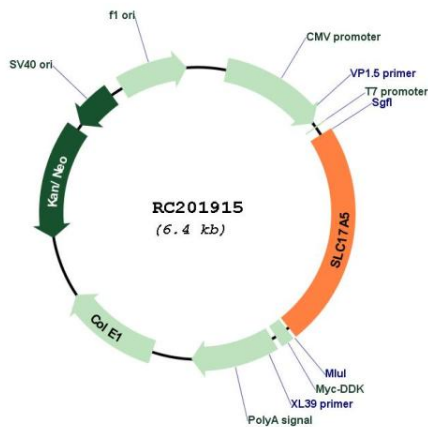
Protein Families: Transmembrane

Protein Pathways: Lysosome

MW: 54.5 kDa

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 Salla disease, an adult form. [provided by RefSeq, Jul 2008]

Product images:



Circular map for RC201915