

## Product datasheet for RC226965

### SLC1A5 (NM\_001145145) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	SLC1A5 (NM_001145145) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	SLC1A5
Synonyms:	AAAT; ASCT2; ATBO; M7V1; M7VS1; R16; RDRC
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC226965 representing NM_001145145 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTACTCTACCACCTATGAAGAGAGGAATATCACCGGAACCAGGGTGAAGGTGCCCGTGGGGCAGGAGG  
TGGAGGGGATGAACATCCTGGGCTTGGTAGTGTGGCCATCGTCTTTGGTGTGGCGCTGCGGAAGCTGGG  
GCCTGAAGGGGAGCTGCTTATCCGCTTCTCAACTCCTTCAATGAGGCCACCATGGTTCTGGTCTCCTGG  
ATCATGTGGTACGCCCTGTGGGCATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGATGTGG  
GTTTACTCTTTGCCCGCCTTGGCAAGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCT  
GGTACTGCCCTCATCTACTTCCCTTCCACCCGAAAAACCCCTACCGCTTCTGTGGGGCATCGTGACG  
CCGCTGGCCACTGCCTTTGGGACCTCTCCAGTTCGCCACGCTGCCGCTGATGATGAAGTGCCTGGAGG  
AGAATAATGGCGTGGCCAAGCACATCAGCCGTTTCATCCTGCCCATCGGCGCCACCGTCAACATGGACGG  
TGCCGCGCTCTTCCAGTGCCTGGCCGAGTGTTCATTGCACAGCTCAGCCAGCAGTCTTGGACTTCGTA  
AAGATCATCACCATCCTGGTCACGGCCACAGCGTCCAGCGTGGGGCAGCGGGCATCCCTGCTGGAGGTG  
TCCTCACTCTGGCCATCATCCTCGAAGCAGTCAACCTCCCGTTCGACCATATCTCCTTGATCCTGGCTGT  
GGACTGGCTAGTCGACCGGTCTGTACCGTCTCAATGTAGAAGGTGACGCTCTGGGGCAGGACTCCTC  
CAAAATTACGTGGACCGTACGGAGTCGAGAAGCACAGAGCCTGAGTTGATACAAGTGAAGAGTGAGCTGC  
CCCTGGATCCGCTGCCAGTCCCACTGAGGAAGGAAACCCCTCCTCAAACACTATCGGGGGCCCCGAGG  
GGATGCCACGGTGCCTCTGAGAAGGAATCAGTCATG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RC226965 representing NM\_001145145  
Red=Cloning site Green=Tags(s)

MYSTTYEERNITGTRVKVPVQGVEVGMNILGLVVFVFAIVFGVALRKLGPPEGELLIRFFNSFNEATMVLVSW  
 IMWYAPVGMFLVAGKIVEMEDVGLLFARLKGKYLCCLLGHAIHGLLVLPLIYFLFTRKNPYRFLWGIWT  
 PLATAFGTSSSSATLPLMMKCEENNGVAKHISRFLPIGATVNM DGAALFQCVAAVFIAQLSQSLDFV  
 KIITILVTATASSVGAAGIPAGGVLTLAIILEAVNLPVDHISLILAVDWLVDRSCTVNLNVEGDALGAGLL  
 QNYVDRTESRSTEPELIQVKSELPLDPLPVPTEEGNPLLKHRYRGPAGDATVASEKESVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKVV

**Chromatograms:** [https://cdn.origene.com/chromatograms/mk8006\\_g05.zip](https://cdn.origene.com/chromatograms/mk8006_g05.zip)

**Restriction Sites:** SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_001145145

**ORF Size:** 1017 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\\_001145145.2](#)

**RefSeq ORF:** 1020 bp

**Locus ID:** 6510

**UniProt ID:** [Q15758](#)

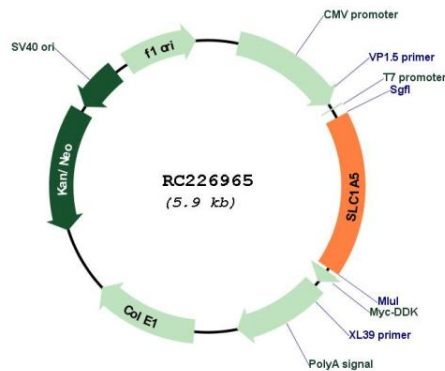
**Cytogenetics:** 19q13.32

**Protein Families:** Druggable Genome, Transmembrane

**MW:** 36.5 kDa

**Gene Summary:** The SLC1A5 gene encodes a sodium-dependent neutral amino acid transporter that can act as a receptor for RD114/type D retrovirus (Larriba et al., 2001 [PubMed 11781704]).[supplied by OMIM, Jan 2011]

## Product images:



Circular map for RC226965