

Product datasheet for **RC200305**

SLC1A5 (NM_005628) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
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)



[View online »](#)

ORF Nucleotide Sequence:

>RC200305 representing NM_005628
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGTGGCCGATCCTCCTCGAGACTCCAAGGGGCTCGCAGCGCGGAGCCACCGCCAACGGGGGCTGG
 CGCTGGCCTCCATCGAGGACCAAGGCGCGCAGCAGGCGGCTACTGCGGTTCCCGGGACCAAGGTGCGCCG
 CTGCCTTCGAGCCAACCTGCTTGTGCTGCTGACAGTGGTGGCCGTGGTGGCCGGCGTGGCGCTGGGACTG
 GGGGTGTGCGGGGCCGGGGTGCCTGGCGTTGGGCCCGAGCGCTTGAGCGCCTTCGTCTTCCCGGGCG
 AGCTGCTGCTGCGTCTGCTGCGGATGATCATCTTGCCGCTGGTGGTGTGCAGCTTGATCGCGCGCGCCG
 CAGCCTGGACCCCGCGCGCTCGGCCGTCTGGCGCCTGGGCGCTGCTCTTTTCTGGTACCACGCTG
 CTGGCGTGGCGCTCGGAGTGGGCTTGGCGCTGGCTCTGCAGCCGGCGCGCCTCCGCCCATCAACG
 CCTCGTGGGAGCCGCGGCAGTGCCGAAATGCCCCAGCAAGGAGGTGCTCGATTCTGTTCTGGATCT
 TGCAGAAATATCTTCCCTTCCAACCTGGTGTGAGCAGCTTTCGCTCATACTCTACCACCTATGAAGAG
 AGGAATATCACCGGAACCAAGGTGAAGGTGCCCCGTGGGGCAGGAGGTGGAGGGGATGAACATCCTGGGCT
 TGGTAGTGTGGCCATCGTCTTGGTGTGGCGCTGCGGAAGCTGGGGCCTGAAGGGGAGCTGCTTATCCG
 CTTCTTCAACTCCTTCAATGAGGCCACCATGGTCTGGTCTCCTGGATCATGTGTTACGCCCTGTGGGC
 ATCATGTTCTGGTGGCTGGCAAGATCGTGGAGATGGAGGATGTGGGTTTACTCTTGGCCGCTTGGCA
 AGTACATTCTGTGCTGCCTGCTGGGTACGCCATCCATGGGCTCCTGGTACTGCCCTCATCTACTTCT
 CTTACCCGCAAAAACCCCTACCGCTTCTGTGGGCGATCGTACGCCGCTGGCCACTGCCTTGGGACC
 TCTTCCAGTTCGCCACGCTGCCGCTGATGATGAAGTGGTGGAGGAGAATAATGGCGTGGCCAAGCACA
 TCAGCCGTTTCACTCTGCCATCGCGGCCACCGTCAACATGGACGGTGGCGGCTCTTCCAGTGGTGGC
 CGCAGTGTTTCATTGCACAGCTCAGCCAGCAGTCTTGGACTTCGTAAGATCATCACCATCCTGGTCAAG
 GCCACAGCGTCCAGCGTGGGGGAGCGGCATCCCTGCTGGAGGTGTCTCACTCTGGCCATCATCTCG
 AAGCAGTCAACCTCCCGGTGACCATATCTCCTTGATCTGGCTGTGGACTGGTAGTCGACCGGTCTG
 TACCGTCTCAATGTAGAAGGTGACGCTCTGGGGCAGGACTCTCCAAATTACGTGGACCGTACGGAG
 TCGAGAAGCACAGAGCCTGAGTTGATACAAGTGAAGAGTGAAGTGGCCCTGGATCCGCTGCCACTCCCCA
 CTGAGGAAGGAAACCCCTCTCAAACTATCGGGGGCCGAGGGGATGCCACGGTGCCTCTGAGAA
 GGAATCAGTCATG

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RC200305 representing NM_005628
 Red=Cloning site Green=Tags(s)

MVADPPRDSKGLAAAEPTANGGLALASIEDQGAAGGYCGSRDQVRRCLRANLLVLLTVVAVVAGVALGL
 GVSGAGGALALGPERLSAFVFPGEILLRLLRMILPLVVCSLIGGAASLDPGALGRLGAWALLFFLVTTL
 LASALGVGLALALQPGAASAAINASVGAAGSAENAPSKEVLDSFLDLARNIFPSNLVSAAFRSYSTTYEE
 RNITGTRVKVPVQVEGEMNIGLVVFAIVFGVALRKLGPGEILLIRFFNSFNEATMVLVSWIMWYAPVG
 IMFLVAGKIVEMEDVGLLFARLKYILCCLLGHAIHGLLVPLIYFLFTRKNPYRFLWGIPTPLATAFGT
 SSSSATLPLMMKVEENNGVAKHISRIFLPIGATVNMGAALFQCAAVFIAQLSQSLDFVKIITILVT
 ATASSVGAAGIPAGGVLTLAIILEAVNLPVDHISLILAVDWLVDRSCTVLNVEGDALGALLQNYVDRT
 SRSTEPELIQVKSELPLDPLPLPTEEGNPLLKHYRGPAGDATVASEKESVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mg4240_g09.zip

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_005628

ORF Size: 1623 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_005628.3](#)

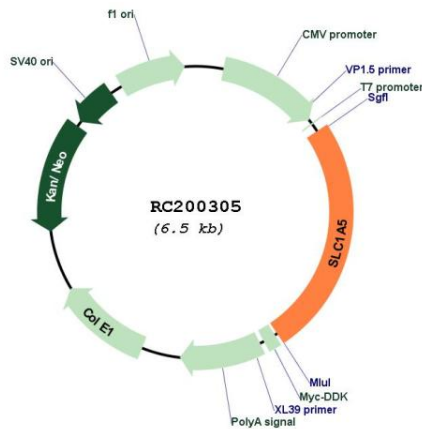
RefSeq Size: 2856 bp

RefSeq ORF: 1626 bp

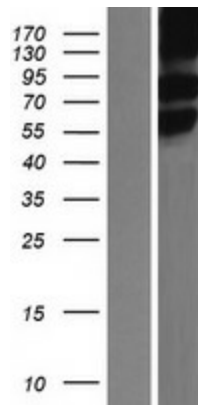
Locus ID: 6510

UniProt ID:	Q15758
Cytogenetics:	19q13.32
Domains:	SDF
Protein Families:	Druggable Genome, Transmembrane
MW:	56.4 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 RC200305



Western blot validation of overexpression lysate (Cat# [LY417160]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC200305 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).