

Product datasheet for **RR200839**

Slc1a5 (NM_175758) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc1a5 (NM_175758) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc1a5
Synonyms:	Asct2; H4-ASCT2; Slc1a7
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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ORF Nucleotide Sequence:

>RR200839 representing NM_175758
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGGCAGTGGATCCTCTAAGGCTGACCCCAAAGGGTGGTGGCGGTGGATCCCACCGCAACTGTGGCT
 CGGGGCTGAAGTCCAGAGAGGACCAGGGAGCGAAAGCAGGTGGATGCTGCAGTCCCGGGACCAAGTGTG
 CCGCTGCCTTCGCGCAACCTGCTGTTCTGCTACCGTGGCGGCGGCGGTGGCTGGCGTGGTGTAGGT
 CTGGGGTCTCGGCGGCGGGCGGTGCTGAGGCGCTGGGCCACGCGCGCTTACCCTTTCCGCTTCCCGG
 GAGAGCTGCTGTTGCGTCTGCTGGAGATGATCATCTGCCGCTGGTGGTGCAGCCTGATCGGAGGTGC
 AGCCAGCTGGACCCTAGCGCGCTCGGCCGTTGGGCGCTGGGCCCTGCTCTTTTTCTGGTCAACACA
 CTGCTCTCTTCGGCTCTCGGCGTGGCCTTGGCCCTGGCGTGAAGCCGGGCGCCGCTTGTGCCATCA
 ACTCTCTGTTGTAGACTCCAGTGTCCACAGACCCACCAAAGAGGTGCTGGATTCTTTCTGGAAGT
 CCTGAGGAATATGTTCCCTCCAATCTGGTGTCTGCTTCTGCTGCCTCCGATTCCATGTGGTGCCTGT
 CCACAGAGGAGCAATGCAACCATGGACCAGCCTCACTGTGAGATGAAGATGAACATTCTGGGCTTGGTCG
 TGTTTCGCTATAGTCTTTGGCGTGGCTCTGAGGAAGCTGGGGCCGAGGGTGGAGCTGCTCATCCGATTCTT
 CAACTCCTTAATGATGCCACCATGGTCTCTGGATTATGTGGTACGCCCCATTGGCATCTTG
 TTCCTGGTGGCCGGAAGATTGTGGAGATGAAAGACATCCGCCAGCTTTCATCGGCCTCGGCAAAATACA
 TCGTGTGCTGCCTGCTGGGCCACGCCATCCACGGGCTCTGGTTCGCTCTCATCTACTCCTCTTTAC
 CCGCAAAACCCTTATCGATTCTGTGGGCATCGTGACCCCTGGCTACAGCTTTCGGGACCTCTTCT
 AGCTCTGCCACATTGCCCTGATGATGAAGTGTGTAGAGGAGAAGAATGGTGTGGCCAAACACATCAGCC
 GGTTCTACTGCCCATCGGCGCCACCCTCAATATGGACGGGCGAGCGTTGTTCCAGTGGCGGCGCAGT
 GTTCATTGCACAATAAATGGGATGTCCCTGGACTTCGTGAAGATCATCACCATCCTGGTACAGCTACT
 GCATCCAGTGTGGGGCCGAGGTATCCCTGCAGGGGCGTCTCACTCTTGCCATCATTCTAGAAGCAA
 TCAGCCTCCCTGTCAAGGACATCTCCTTGATCTTGCCGTTGGACTGGCTAGTGGACAGGTCTGTACGGT
 CCTCAACGTGGAGGGTGTGCTTTGGGCGGATTGCTCCAGAGTTACGTGGATCGCACCAAGATGCCG
 AGCTCAGAGCCTGAACTGATCCAGGTGAAGAACGACGTGTCTCTGAAACCATTGCCCTCGCCACAGAGG
 AGGGGAACCCCTTCTGAAACAGTGCCGGGAACCTCCGGGACTCCAGTGCCACATGCGAAAAGGAATC
 TGTCATG

ACGCGTACGCGGCGGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR200839 representing NM_175758
 Red=Cloning site Green=Tags(s)

MAVDPPKADPKGVAVDPTANCGSGLKSREDQGAAGCCSSRDQVCRCLRANLLVLLTVAAAVAGVVLG
 LGVSAAGGAEALGHARFTAFAPGELLRLLEMIILPLVVCSLIGGAASLDPSALGRLGAWALLFFLVTT
 LLSSALGVALALALKPGAFAA INSSVVDSSVHRAPTKEVLDSFLELLRNMFPSNLVSASAAFRIPCGAC
 PQRSNATMDQPHCEMKNILGLVFAIVFGVALRKLGPGEGLIRFFNSFN DATMVLVSWIMWYAPIGIL
 FLVAGKIVEMKDIRQLFIGLGKIVCCLLGHAIHGLLVLPLIYFLFTRKNPYRFLWGI VTPATAFGTSS
 SSATLPLMMKCVEEKNGVAKHISR FILP I GATVNMDGAALFQCVA AVFIAQLNGMSLDFVKIITILVTAT
 ASSVGAAGIPAGGVLT LAIILEAISLPVKDISLILAVDWLVDRSCTVLNVEGDAFGAGLLQSYVDRTKMP
 SSEPELIQVKNVSLKPLPLATEEGNPLLKQCREPSGDSSATCEKESVM

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/ja2196_a10.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_175758

ORF Size: 1617 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

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.

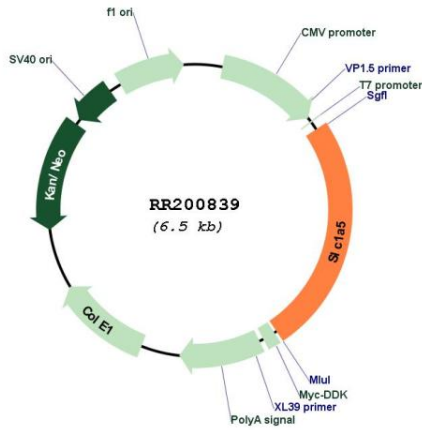
Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

- 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_175758.3, NP_786934.1](#)

RefSeq Size: 2570 bp
 RefSeq ORF: 1620 bp
 Locus ID: 292657
 Cytogenetics: 1q21
 MW: 56.8 kDa
 Gene Summary: glutamine transporter; involved in glutamine efflux from astrocytes [RGD, Feb 2006]

Product images:



Circular map for RR200839