

## Product datasheet for **RR200735**

### **Slc1a4 (NM\_198763) Rat Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc1a4 (NM_198763) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc1a4
Synonyms:	ASCT1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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**ORF Nucleotide Sequence:**

>RR200735 representing NM\_198763  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGAGGAGACCAACGGATACCTCGACGGCGCCAGGCTCAGCCTGCGGCCCGTCCCCGAACGCCGAGAG  
 CGGGGACGAGCAAAGCGCAGCGCTGTGCTAGCTTTTTTCGGCGCAACCGCGTGGTGTGCTCACCCTGTC  
 GGGGGTGTGGCGGGCGCCGCATGGGCGCGGCTTCGCGGGCTGCAGCTCACCCGCACGCAAATCACT  
 TACCTGGCCTTCCCGGGCGAGATGCTGCTCCGATGCTGCGCATGATCATCTACCCTGGTGGTTTGA  
 GTCTGGTGTGGGCGCCGCTCCCTGGACGCCAGCTCCCTCGGGCGTCTGGGTGGCATCGCTGTTGCTTA  
 CTTGCGCCTCACACGCTGAGTGCCTCTGCGCTCGCTGTTGCTCTGGCGTTCATCATCAAGCCAGGAGTG  
 GCGCGCAGACCCCTTATTCCAGCAGCCTGGGGCTGGAGAACTCAGAACCTCCTCCAGTCTCAAAGAGA  
 CAGTGGACTCTTCTGGATTTACTCAGAAACCTGTTCCCTTCCAATCTGTGGTTGCCGATTCTCTAC  
 GTCTGCAACCAGTTACACAGTGGTCCATAACTCCAGCTTGGGGAACGTGACCAAAGAGAAGATCCCC  
 GTCGTCAGTGTGAAAGGGATGAACATCTTAGGACTGGTCTTTTTGCCCTGATGTTAGGAGTGGCTC  
 TAAAGAAGCTAGGCCCGGAGGAGACGAGCTCATCCGATCTTCAATTCCTTCAATGAGGCAACAATGGT  
 GTTGGTGTGCTGGATCATGTGGTACGTACCTATCGGCATCATGTTCTGATCGGAAGCAAGATTGTGGAA  
 ATGCAGGACCTCATCGTGTCTGACTAGCCTCGGAAAATACATCTTCGCTCTATACTGGGCCATGTTA  
 TCCATGGAGGAATTGTTCTGCTCTTGTCTATTTTGTCTTTACGAGGAAAAACCGTTACAGTTCCTCT  
 GGGCCTCTACCCCGTTTGGCAGCGCTTTTGGCAGCTGTTCCAGCTCAGCAACCCTTCCGTCTATGATG  
 AAGTGCATCGAGGAAAACAATGGCGTGGACAAGAGGATCAGCAGGTTTCATCTTCCATCGGGGCCACAG  
 TCAACATGGATGGGGCCCATCTCCAGTGTGGCTGCAGTGTTCATCGCCAGCTCAACAACCGTGGG  
 CCTGAACGCGGGACAGATTTTACCATTCTGGTGACCGCCACCGCATCCAGTGTGGAGCAGCGGGTGTG  
 CCGGCTGGAGGGTCTCACCATTGCCATCATCTAGAGGCCATTGGACTGCCACGAACGACCTCTCTC  
 TGATCCTGGTGTGGACTGGATTGTGGACAGGACCACCTGTGGTGAACGTGGAAGGGGATGCCCTGGG  
 AGCTGGGATCCTCAACCACCTGAATCAGAGGACAGTGAAGAAGGGTGAAGCAGGAGCTGCAAGAAGTGAAG  
 GTGGAAGCCATCCCAATCCAAGTCTGAGGAGGAGACGTCGCCCTGGTACACACCAGAACCAGGGCAG  
 GCCCTGTAGCCGTTGCTCCTGAATCCAAGGAGTCAAGTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RR200735 representing NM\_198763  
 Red=Cloning site Green=Tags(s)

MEETNGYLDGAQAQPAARPRTPETGTSKAQRCAFFRRNALVLLTVSGVLAGAGMGAALRGLQLTRTQIT  
 YLAFPGEMLLRMLRMIILPLVVCSLVSGAASLDASSLGRLLGGIAYAYFGLTTLASALAVAFIIPKGV  
 GAQTLHSSSLGLENSEPPPVSKETVDSFLDLRNLFPSNLVVAAFSTSATSYTVVHNSLGNVTKEKIP  
 VVTDVKGMNII LGLVLFALMLGVALKKLGPEGDELIRFFNSFNEMVLSWIMWYVPIGIMFLIGSKIVE  
 MQDLIVLVTSLGKYIFASILGHVIHGGIVLPLVYFAFTRKNPFTFLLGLLTPFATACSSSATLPSMM  
 KCI EENNGVDKRISRIFILPIGATVNMDGAAIFQCVAAVFAQLNNVDLNAGQIFITILVTATASSVGAAGV  
 PAGGVLTIAIILEAIGLPTNDLSLILAVDWIVDRTTTTVVNVEGDALGAGILNHLNQRTVKKGEQELQEVK  
 VEAIPNSKSEETSPLVTHQNRAGPVAVAPELESKESVL

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

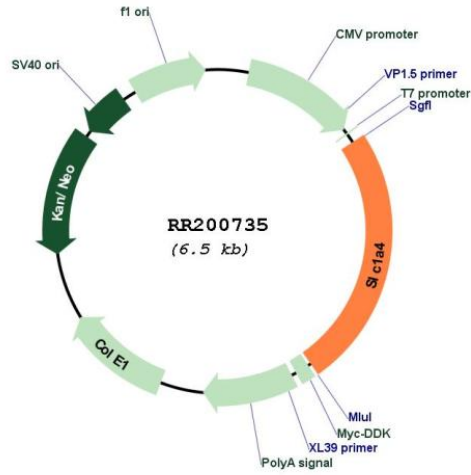
Cloning Scheme:

Cloning sites used for ORF Shuttling:



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

Plasmid Map:



<b>ACCN:</b>	NM_198763
<b>ORF Size:</b>	1587 bp
<b>OTI Disclaimer:</b>	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. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_198763.1</a> , <a href="#">NP_942058.1</a>
<b>RefSeq Size:</b>	1996 bp
<b>RefSeq ORF:</b>	1590 bp
<b>Locus ID:</b>	305540
<b>Cytogenetics:</b>	14q22
<b>MW:</b>	55.9 kDa
<b>Gene Summary:</b>	L-serine transporter; involved in uptake of L-serine in primary neurons [RGD, Feb 2006]