

Product datasheet for **RR203450**

Slc2a1 (NM_138827) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc2a1 (NM_138827) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc2a1
Synonyms:	Glut1; GLUTB; GTG1; Gtg3; RATGTG1
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
Cell Selection:	Neomycin



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ORF Nucleotide Sequence:

>RR203450 representing NM_138827
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGCCAGCAGCAAGAAGGTGACGGGCCCTTATGTTGGCCGTGGGAGGGCAGTGCTCGGATCCC
 TGCAGTTCGGCTATAACACCGGTGCATCAACGCCCCAGAAAGTAATTGAGGAGTTCTACAATCAAAC
 ATGGAACCACCGCTATGGAGAGTCCATCCCATCCACCACACTCACCACACTCTGGTCTCTCTCCGTGGCC
 ATCTTCTCTGTCGGGGCATGATTGGTTCCTTCTCTGTGGCCCTTTTGTAAATCGCTTTGGCAGGCGGA
 ACTCCATGCTGATGATGAACCTGTTGGCCTTTGTGTCTGCCGTGCTTATGGGTTTCTCCAACTGGGCAA
 GTCCTTTGAGATGCTGATCCTGGCCGCTTCATCATTGGAGTGTACTGTGGCCTGACCACCGCTTTGTG
 CCCATGTATGTGGGGAGGTGTACCCACAGCTTTCGTGGAGCCCTGGGCACCTGCACCAGCTGGGCA
 TCGTCGTTGGGATCCTTATTGCCAGGTGTTGGCTTAGACTCCATCATGGGCAATGCAGACTTGTGGCC
 TCTACTGCTCAGTGCATCTTCATCCAGCCCTGCTACAGTGTATCCTGTTGCCCTTCTGCCCTGAGAGC
 CCCCCTTCTGTCTCATCAATCGTAACGAGGAGAACCGGGCCAAGAGTGTCTGAAAAAGCTTCGAGGGA
 CAGCCGATGTGACCCGAGACCTGCAGGAGATGAAAGAAGAGGGTCCGCGAGATGATGCGGGAGAAGAAGT
 CACCATCTGGAGCTGTTCCGCTCACCCGCTACCCGACCCATCCTCATCGCCGTGGTGTGCAGCTG
 TCCCAGCAGCTGTGGGCATCAATGCTGTGTTCTACTACTCAACGAGCATCTTCGAGAAGGCAGGTGTGC
 AGCAGCCTGTGTATGCCACCATCGGCTCGGATATCGTCAACACGGCCTTCACTGTGGTGTGCTGTTGCT
 CGTGGAGCAGCTGGCCGTCGGACCTGCATCTCATTGGTCTGGTGGCATGGCGGGCTGTGCTGTGCTC
 ATGACCATCGCCCTGGCCTGCTGGAGCAGCTGCCCTGGATGTCCTATCTGAGTATCGTGGCCATCTTTG
 GCTTTGTGGCCTCTTTGAAGTAGGCCCTGGTCTTCCATGGTTCATTGTGGCCGAGCTGTTCCAGCCA
 GGGGCCCGACCTGCTGCTGTTGCTGTGGCTGGCTTCTCTAACTGGACCTCAAACCTTCATCGTGGGCATG
 TGCTTCCAATATGTGGAGCAACTGTGTGGCCCTACGTCTTCATCATCTTACGGTGTGCTGTTGACTCT
 TCTTACCTTACCTACTTCAAAGTTCCTGAGACCAAAGGCCGGACCTTCGATGAGATCGCTTCCGGCTT
 CCGGCAGGGGGTCCAGCCAGAGCGACAAGACACCTGAGGAGCTTCCACCCTCTGGGGCTGACTCC
 CAAGTG

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR203450 representing NM_138827
 Red=Cloning site Green=Tags(s)

MEPSSKKVTGRLMLAVGGAVLGSLQFGYNTGVINAPQKVIEEFYNQTNHRYGESIPSTLTTLWLSVA
 IFSVGGMIGSFSVGLFVNRFGRNSMLMMNLLAFVSAVLMGFSKLGKSFEMILGRFIIIGVYCGLTGTFV
 PMYVGEVSPTALRGALGTLHQLGIVVGIILIAQVFLDSIMGNADLWPLLSVIFIPALLQCILLPFCPES
 PRFLLINRNEENRAKSVLKKLRGTADVTRDLQEMKEEGRQMMREKKVTILELFRSPAYRQPILIAVVLQL
 SSQLSGINAVFYYSTSIFEKAGVQQPVYATIGSGIVNTAFVVSFLFVVERAGRRTLHLIGLAGMAGCAVL
 MTIALALLEQLPWMSYLSIVAIIFGFVAFFEVGPGPIPFIVAELFSQGPRPAAVAVAGFSNWTSNFIVGM
 CFQYVEQLCGPYVFIIFTVLLVLFIFTYFKVPETKGRTFDEIASGFRQGGASQSDKTPEELFHPLGADS
 QV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

SgfI-MluI

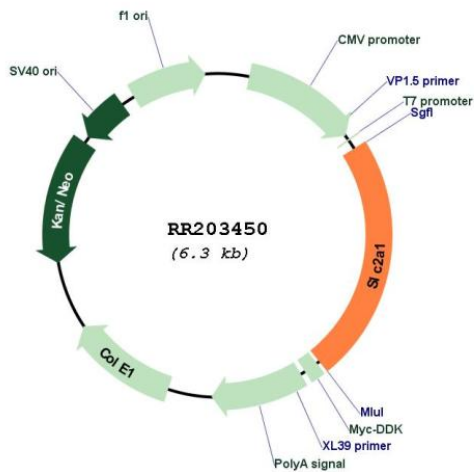
Cloning Scheme:

Cloning sites used for ORF Shuttling:



* The last codon before the Stop codon of the ORF

Plasmid Map:



ACCN: NM_138827

ORF Size: 1476 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_138827.1](#), [NP_620182.1](#)

RefSeq Size: 2571 bp

RefSeq ORF: 1479 bp

Locus ID: 24778

UniProt ID: [P11167](#)

Cytogenetics: 5q36

MW: 54 kDa

Gene Summary: transporter for glucose and other hexoses; may be involved in response to osmotic and metabolic stress [RGD, Feb 2006]