

Product datasheet for **MC202634**

Slc2a1 (NM_011400) Mouse Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc2a1 (NM_011400) Mouse Untagged Clone
Tag:	Tag Free
Symbol:	Slc2a1
Synonyms:	Glut-1; Glut1
Mammalian Cell Selection:	Neomycin
Vector:	PCMV6-Kan/Neo (PCMV6KN)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

Fully Sequenced ORF: >BC055340 sequence for NM_011400
 AAAAAGGCAGCTCCGCGCTCTCCCAAGAGCAGAGGCTTGCTGTAGAGTGACGATCTGAGCTACGG
 GGTCTTAAGTGCCTCAGGGCGTGGAGGTCTGGCGGAGACGCATAGTTACAGCGCTCCGTTCTCCGTCT
 CGCAGCCGGCACAGCTAGAGCTTCGAGCGCAGCGGCCATGGATCCCAGCAGCAAGAAGGTGACGGGCC
 GCCTCATGTTGGCTGTGGGAGGAGCAGTCTGGATCACTGCAGTTCGGCTATAACACTGGTGTCACTAA
 CGCCCCCAGAAGTTATTGAGGAGTTCTACAATCAAACATGGAACCACCGCTACGGAGAGCCCCATCCCA
 TCCACCACACTCACCACGCTTTGGTCTCTCCGTGGCCATCTTCTGTGCGGGGCATGATTGGTTCCT
 TCTGTGCGGCCTTTTGTAAATCGCTTTGGCAGGCGGAACCTCCATGCTGATGATGAACCTGTTGGCCTT
 TGTGGCTGCTGTCTTATGGGCTTCTCCAACTGGGCAAGTCTTTGAGATGCTGATCCTGGGCCGCTTC
 ATCATCGGTGTACTGCGGCCTGACTACTGGCTTTGTGCCATGTATGTGGGAGAGGTGTACCTACAG
 CTCTACGTGGAGCCCTAGGCACACTGCACCAGCTGGGAATCGTCGTTGGCATCCTTATTGCCAGGTGTT
 TGGCTTAGACTCCATCATGGCAATGCAGACTTGTGGCCTCTGCTGCTCAGTGTCACTTCCATCCCAGCC
 CTGCTACAGTGTATCCTGTTGCCCTTCTGCCCCGAGAGCCCCGCTTCTGCTCATCAATCGTAACGAGG
 AGAACCGGGCCAAGAGTGTGCTGAAGAAGCTTCGAGGGACAGCCGATGTGACCCGAGACCTGCAGGAGAT
 GAAAGAAGAGGGTCGGCAGATGATGCGGGAGAAGAAGGTACCATCTTGGAGCTGTTCCGCTCACCCGCC
 TACCGCCAGCCATCCTCATCGCTGTGGTGTGACGCTGTCCAGCAGCTGTCCGGTATCAATGCTGTGT
 TCTACTACTCAACGAGCATCTTCGAGAAGGCAGGTGTGCAGCAGCCTGTGTACGCCACCATCGGCTCCGG
 TATCGTCAACACGGCCTTCACTGTGGTGTGCTGTTTGTGTAGAGCGAGCTGGACGACGGACCCTGCAC
 CTCATTGGCCTGGCTGGCATGGCAGGCTGTGCTGTGCTCATGACCATCGCCCTGGCCTTGTGGAACGGC
 TGCCTTGGATGTCTATCTGAGCATCGTGGCCATCTTTGGCTTTGTGGCCTTCTTTGAAGTAGGCCCTGG
 TCCTATTCCATGGTTCATTGTGGCCGAGCTGTTACGCCAGGGGCCCGTCTGCTGCTATTGCTGTGGCT
 GGCTTCTCAACTGGACCTCAAACCTTATTGTGGCATGTGCTTCCAGTATGTGGAGCAACTGTGCGGCC
 CCTACTTTCATCATCTTACGGTGTCTCCTGCTCTTCTTTCATCTTCACTACTTCAAAGTCCCTGA
 GACCAAAGGCCGAACCTTCGATGAGATCGCTTCCGGCTTCCGGCAGGGGGTGCCAGCCAAAGTGAACAAG
 ACACCCGAGGAGCTTCCACCCTCTGGGGCGGACTCCCAAGTGTGAGGAGCCCCACACCCAGCCCGGC
 CTGCTCCCTGCAGCCCAAGGATCTCTCTGGAGCACAGGCAGCTAGATGAGACCTTCCGAACCGACAGA
 TCTCGGGCAAGCCGGCCTGGGCGCCTTCTCAGCCAGCAGTGAAGTCCAGGAGGATATTCAGGACTTT
 GATGGCTCCAGAATTTTAAATGAAAGCAAGACTGCTGCTCAGATCTATTGAGATAAGCAGCAGGTTTTAT
 AATTTTTTATTACTGATTTTGTATTTTTTTTTTTTATCAGCCACTCTCCTATCTCCACACTGTAGTCT
 TCACCTTGATTGGCCAGTGCCTGAGGGTGGGACCACGCCCTGTCCAGACACTTGCCTTCTTTGCCAAG
 CTAATCTGTAGGGCTGGACCTATGGCCAAGGACACACTAATACCGAACTCTGAGCTAGGAGGCTTTACCG
 CTGGAGGCGGTAGCTGCCACCCACTTCCGACGGCTGGACCTCGGCACCATAGGGGTCCGGACTCCATTT
 TAGGATTCGCCCATTCCTGTCTTCTCTACCCAACCACTCAATTAATCTTTCTTGCCTGAGACCAGTTG
 GAAGCACTGGAGTGCAGGGAGGAGAGGGGAGGGCCAGGCTGGGCTGCCAGGTTCTAGTCTCCTGTGCACT
 GAGGGCCACACAAACACCATGAGAAGGACCTCGGAGGCTGAGAACTTAACTGCTGAAGACACGGACACTC
 CTGCCCTGCTGTATAGATGGAAGATATTTATATATTTTTTGGTTGTCAATATTAATAACAGACACTAA
 GTTATAGTATATCTGGACAAACCCACTTGTAAATACACCAACAACTCCTGTAACCTTACCTAAGCAGAT
 ATAAATGGCTGGTTTTTAGAA
 AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Ascl-NotI
ACCN: NM_011400
Insert Size: 1479 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](#)

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: [BC055340](#), [AAH55340](#)

RefSeq Size: 2613 bp

RefSeq ORF: 1479 bp

Locus ID: 20525

UniProt ID: [P17809](#)

Cytogenetics: 4

Gene Summary: Facilitative glucose transporter, which is responsible for constitutive or basal glucose uptake (PubMed:17320047). Has a very broad substrate specificity; can transport a wide range of aldoses including both pentoses and hexoses (By similarity). Most important energy carrier of the brain: present at the blood-brain barrier and assures the energy-independent, facilitative transport of glucose into the brain (By similarity).[UniProtKB/Swiss-Prot Function]