

Product datasheet for **MG207871**

Slc2a1 (NM_011400) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc2a1 (NM_011400) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc2a1
Synonyms:	Glut-1; Glut1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG207871 representing NM_011400
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGATCCAGCAGCAAGAAGGTGACGGGCCCGCTCATGTTGGCTGTGGGAGGAGCAGTGCTCGGATCAC
 TGCAGTTCGGCTATAACTGTTGTCATCAACGCCCCAGAAAGTTATTGAGGAGTTCTACAATCAAAC
 ATGGAACCACCGCTACGGAGAGCCATCCCATCCACCACACTCACCACGCTTTGGTCTCTCTCCGTGGCC
 ATCTTCTCTGTCGGGGCATGATTGGTTCTTCTCTGTCGGCCTCTTTGTTAATCGCTTTGGCAGGCGGA
 ACTCCATGCTGATGATGAACCTGTTGGCCTTTGTGGTGTGTGCTTATGGGCTTCTCAAACCTGGGCAA
 GTCCTTTGAGATGCTGATCCTGGCCGCTTCATCATCGGTGTGTACTGCGGCCTGACTACTGGCTTTGTG
 CCCATGTATGTGGGAGAGGTGTACCTACAGCTCTACGTGGAGCCCTAGGCACACTGCACCAGCTGGGAA
 TCGTCGTTGGCATCCTTATTGCCAGGTGTTGGCTTAGACTCCATCATGGGCAATGCAGACTTGTGGCC
 TCTGCTGCTCAGTGTATCTTATCCCAGCCCTGCTACAGTGTATCCTGTTGCCCTTCTGCCCGAGAGC
 CCCCCTTCTGCTCATCAATCGTAACGAGGAGAACCGGGCCAAGAGTGTGCTGAAGAAGCTTCGAGGGA
 CAGCCGATGTGACCCGAGACCTGCAGGAGATGAAAGAAGAGGGTGGCAGATGATGCGGGAGAAGAAGGT
 CACCATCTGGAGCTGTTCCGCTCACCCGCTACCCGACCCATCCTCATCGTGTGGTGTGTCAGCTG
 TCCCAGCAGCTGTGGGTATCAATGCTGTGTTCTACTACTCAACGAGCATCTTCGAGAAGGCAGGTGTG
 AGCAGCCTGTGTACGCCACCATCGGCTCCGGTATCGTCAACACGGCCTTCACTGTGGTGTGCTGTTTGT
 TGTAGAGCAGCTGGACGACGGACCTGCACCTATTGGCCTGGTGGCATGGCAGGCTGTGCTGTGCTC
 ATGACCATCGCCCTGGCCTTGTGGAACGGCTGCCTTGGATGTCTATCTGAGCATCGTGGCCATCTTTG
 GCTTTGTGGCCTCTTTGAAGTAGGCCCTGGTCCATTCCATGGTTCATTGTGGCCGAGCTGTTCCAGCCA
 GGGGCCCGTCCCTGCTGCTATTGCTGTGGCTGGCTTCTCCAACCTGGACCTCAAACCTCATTGTGGGCATG
 TGCTTCCAGTATGTGGAGCAACTGTGCGGCCCTACGTCTTCATCATCTTACGGTGTCTCTCGTCTCT
 TCTTACCTTACCTACTTCAAAGTCCCTGAGACCAAAGGCCGAACCTTCGATGAGATCGCTTCCGGCTT
 CCGGCAGGGGGTCCAGCCAAAGTGACAAGACACCCGAGGAGCTTCCACCCTCTGGGGCGGACTCC
 CAAGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG207871 representing NM_011400
 Red=Cloning site Green=Tags(s)

MDPSSKKVTGRLMLAVGGAVLGSLLQFGYNTGVINAPQKVIIEEFYNQTNHRYGEPSTLTLWLSVA
 IFSVGGMIGSFSVGLFVNRFGRNSMLMMNLLAFVAAVLMGF SKLGKSFEMILGRFIIIGVYCLTTGFV
 PMYVGEVSPTALRGALGTLHQLGIVVGILIAQVFLDSIMGNADLWPLLLSVIFIPALLQCILLPFCPES
 PRFLLINRNEENRAKSVLKKLRGTADVTRDLQEMKEEGRQMMREKKVTILELFRSPAYRQPILIAVVLQL
 SQQLSGINAVFYYSTSIFEKAGVQPVYATIGSGIVNTAFTVVSFLFVVERAGRRTLHLIGLAGMAGCAVL
 MTIALALLERLPWMSYLSIVAIFGFVAFVEVPGPIPWFIVAELFSQGRPAIIAVAGFSNWSNFIVGM
 CFQYVEQLCGPYVFIIFTVLLVLFIFTYFKVPETKGRTFDEIASGFRQGGASQSDKTPEELFHPLGADS
 QV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_011400

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).

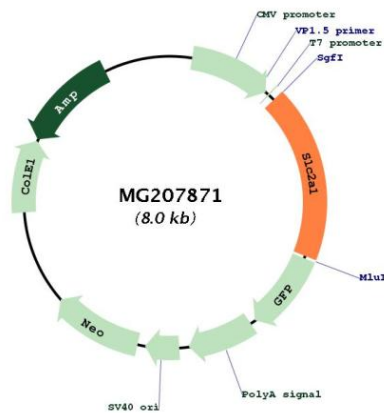
- Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
 2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
 3. Close the tube and incubate for 10 minutes at room temperature.
 4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid 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_011400.3](#)

RefSeq Size: 2544 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]

Product images:



Circular map for MG207871