

Product datasheet for **MG208388**

Slc2a2 (NM_031197) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc2a2 (NM_031197) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc2a2
Synonyms:	A1266973; Glut-2; Glut2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208388 representing NM_031197
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGTCAGAAGACAAGATCACCGAACCTTGGCTTTCCTACTGTCTTACTGTCTACTGAGTTCCTTCCAGT
 TCGGCTATGACATCGGTGTGATCAATGCACCTCAAGAGTAATAATATCCATTATCGACATGTTTTGGG
 TGTTCCACTGGATGACCGGAAAGCTGCCATTAAGTATGACGTCAATGGCAGACACCCCACTTACAGTC
 ACACCAGCATACACAACACCAGCTCCCTGGGATGAAGAGGAGACTGAAGGATCTGCTCACATAGTCACTA
 TGCTCTGGTCTCTGTCTGTCCAGCTTTCAGTGGGCGGAATGGTCGCCTATTCTTTGGTGGGTGGCT
 CGGGGACAACTTGAAGGATCAAAGCAATGTTGGCTGCAACAGCCTCTCATTGACTGGAGCCCTCTTG
 ATGGGATGTTCCAAATTTGGACCGGCACACGCCCTCATCATTGCTGGACGAAGTGTATCAGGACTGTATT
 GTGGGCTAATTTACAGACTGGTTCATGTACATTGGAGAGATCGCTCCAACCACACTCAGGGGTGCCCT
 GGGTACTCTTACCAACTGGCCCTGTGCACAGGACTTCTATTAGTCAGATTGCTGGCCTCAGCTTTATT
 CTGGGCAATCAGGATCATTGGCAGATCCTACTTGGCCTATCTGCTGTGCCAGCTCTTCTGCAAGTCTGC
 TACTGCTCTTCTGTCAGAAAGCCCAAGATACCTTTATATAAAGTTGGAAGAGGAAGTCAGGGCAAAGAA
 AAGCTTGAAGAGACTAAGAGAACTGAGGATGTCACAAAGATATTAATGAGATGAAGAAAGAAAAGGAA
 GAGGCATCGACTGAGCAGAAGGTCTCCGTGATCCAGCTCTTACGGATGCCAATTACCGACAGCCCATCC
 TCGTGGCGCTGATGCTGCACATGGCCAGCAGTCTCAGGAATCAATGGGATATTTACTATTCAACCAG
 CATTTTTCAGACAGCTGGCATCAGCCAGCCTGTGTATGCAACCATTGGTGTGGGGCCATCAACATGATC
 TTCACGGCTGTCTGTGCTGCTTGTGGAGAAGGCAGGGCGGCGGACCCTGTTCTAACCAGGATGATTG
 GCATGTTTTTCTGCACCATCTTCATGTCGGTGGGACTTGTGCTGCTGGATAAATTCGCCTGGATGAGTGA
 CGTGAGCATGACGGCCATCTTCCCTTTTGTGAGTTTCTTTGAGATTGGGCCAGGTCCAATCCCTTGGTTC
 ATGTTGCTGAATTTTTAGCCAAGGACCCGCTCTACGGCTCTGGCACTGGCTGCCTTACGCAACTGGG
 TCTGCAATTTTGTATCGCCCTCTGCTTCCAGTACATTGCGGACTTCTCGGGCCTTACGTGTTCTTCTCT
 CTTGCTGGGGTGGTCTTCCCTGTTTACATTCTTTAAAGTTCAGAAACCAAGGAAAGTCT
 TTTGAGGAAATCGCTGCAGAATCCGGAAGAAGAGTGGTTCGGCCCCACCAGCAAGCTGCTGTACAAA
 TGGAAATCCTGGCGTCTCAGAGAGTGTG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208388 representing NM_031197
 Red=Cloning site Green=Tags(s)

MSEDKITGLAFTVFTAVLSSFQFGYDIGVINAPQEVIISHYRHVLGVPLDDRKAAINYDVNGDTPPLTV
 TPAYTTPAPWDEEETEGSAHIVTMLWLSVSSFAVGGMVASFFGGWLGDKLGRIKAMLAANSLSLTGALL
 MGCSKFGPAHALIIAGRSVSGLYCGLISGLVPMYIGEIAPTTLRGALGTLHQLALVTGILISQIAGLSFI
 LGNQDHWHILLGLSAVPALLQCLLLLFCPESPRYLYIKLEEEVRAKSLKRLRGTEDVTKDINEMKKEKE
 EASTEQKVSVIQLFTDANYRQPIILVALMLHMAQQFSGINGIFYYSTSIFQTAGISQPVYATIGVGAINMI
 FTAVSVLLVEKAGRRTLFLTMIGMFFCTIFMSVGLVLLDKFAWMSYVSMTAIFLVSFFEIGPGPIPF
 MVAEFFSQGPRPTALALAAFNNWVCFVIALCFQYIADFLGPYVFFLFAGVVLVFTLFTFFKVPETKGS
 FEEIAAEFRKKSAPPKAAVQMEFLASSESV

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_031197

ORF Size: 1569 bp

OTI Disclaimer: 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_031197.1](#), [NP_112474.1](#)

RefSeq Size: 2491 bp

RefSeq ORF: 1572 bp

Locus ID: 20526

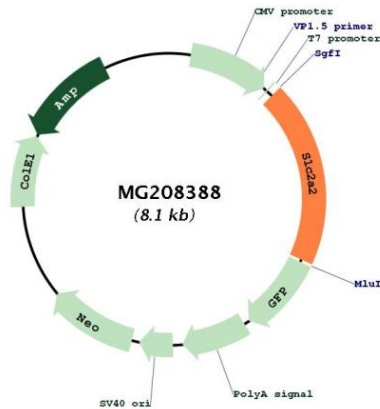
UniProt ID: [P14246](#)

Cytogenetics: 3 12.19 cM

Gene Summary:

Facilitative hexose transporter that mediates the transport of glucose and fructose. Likely mediates the bidirectional transfer of glucose across the plasma membrane of hepatocytes and is responsible for uptake of glucose by the beta cells; may comprise part of the glucose-sensing mechanism of the beta cell. May also participate with the Na(+)/glucose cotransporter in the transcellular transport of glucose in the small intestine and kidney. Also able to mediate the transport of dehydroascorbate. [UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG208388