

## Product datasheet for **MR208388**

### Slc2a2 (NM\_031197) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc2a2 (NM_031197) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc2a2
Synonyms:	A1266973; Glut-2; Glut2
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208388 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTGCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**GCGATCGCC**

ATGTCAGAAGACAAGATCACCGAACCTTGGCTTTCCTACTGTCTTACTGTCTACTGAGTTCCTTCCAGT  
 TCGGCTATGACATCGGTGTGATCAATGCACCTCAAGAGTAATAATATCCATTATCGACATGTTTTGGG  
 TGTCCACTGGATGACCGAAAGCTGCCATTAAGTATGACGTCAATGGCAGACACCCCACTTACAGTC  
 ACACCAGCATACACAACACCAGCTCCCTGGGATGAAGAGGAGACTGAAGGATCTGCTCACATAGTCACTA  
 TGCTCTGGTCTGTCTGTGTCCAGCTTTCAGTGGGCGGAATGGTCGCCTATTCTTTGGTGGGTGGCT  
 CGGGGACAACTTGAAGGATCAAAGCAATGTTGGCTGCAAAACAGCCTCTCATTGACTGGAGCCCTCTTG  
 ATGGGATGTTCCAAATTTGGACCGGCACACGCCCTCATCATTGCTGGACGAAGTGTATCAGGACTGTATT  
 GTGGGCTAATTTACAGACTGGTTCATGTACATTGGAGAGATCGCTCCAACCACACTCAGGGGTGCCCT  
 GGGTACTCTTACCAACTGGCCCTGTGACAGGCATTCTATTAGTCAGATTGCTGGCCTCAGCTTTATT  
 CTGGGCAATCAGGATCATTGGCAGATCCTACTTGGCCTATCTGCTGTGCCAGCTCTTCTGCAGTGTCTGC  
 TACTGCTCTTCTGTCCAGAAAGCCCAAGATACCTTTATATAAAGTTGGAAGAGGAAGTCAGGGCAAAGAA  
 AAGCTTGAAGAGACTAAGAGAACTGAGGATGTCACCAAAGATATTAATGAGATGAAGAAAAGAAAAGGAA  
 GAGGCATCGACTGAGCAGAAGGTCTCCGTGATCCAGCTCTTACGGATGCCAATTACCGACAGCCCATCC  
 TCGTGGCGCTGATGCTGCACATGGCCAGCAGTCTCAGGAATCAATGGGATATTTACTATTCAACCAG  
 CATTTTTCAGACAGCTGGCATCAGCCAGCCTGTGTATGCAACCATTGGTGTGGGGCCATCAACATGATC  
 TTCACGGCTGTCTGTGCTGCTTGTGGAGAAGGCAGGGCGCGGACCCTGTTCCAAACCGGATGATTG  
 GCATGTTTTTCTGCACCATCTTCATGTCGGTGGGACTTGTGCTGCTGGATAAATTCGCCTGGATGATTG  
 CGTGAGCATGACGGCCATCTTCCCTTTTGTGAGTTTCTTTGAGATTGGGCCAGGTCCAATCCCTTGGTTC  
 ATGTTGCTGAATTTTTAGCCAAGGACCCGCTCTACGGCTCTGGCACTGGCTGCCTTACGCAACTGGG  
 TCTGCAATTTTGTATCGCCCTCTGCTTCCAGTACATTGCGGACTTCTCGGGCCTTACGTGTTCTTCTCT  
 CTTGCTGGGGTGGTCTGGTCTTACCCTGTTTACATTCTTTAAAGTTCAGAAACCAAAGGAAAGTCT  
 TTTGAGGAAATCGCTGCAGAATCCGGAAGAAGAGTGGTTCGGCCCCACCAGCAAAGCTGCTGTACAAA  
 TGGAAATCCTGGCGTCTCAGAGAGTGTG

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208388 protein sequence  
 Red=Cloning site Green=Tags(s)

MSEDKITGLAFTVFTAVLSSFQFGYDIGVINAPQEVIISHYRHVLGVPLDDRKAAINYDVNGDTPPLTV  
 TPAYTTPAPWDEEETEGSAHIVTMLWSLSVSSFAVGGMVASFVGGWLGDKLGRIKAMLAANSLSLTGALL  
 MGCSKFGPAHALIIAGRSVSGLYCGLISGLVPMYIGEIAPTTLRGALGTLHQLALVTGILISQIAGLSFI  
 LGNQDHWIILLGLSAVPALLQCLLLLFCPESPRYLKLEEEVRAKSLKRLRGTEVDTKDINEMKKEKE  
 EASTEQKVSVIQLFTDANYRQPILVALMLHMAQQFSGINGIFYYSTSIFQTAGISQPVYATIGVGAINMI  
 FTAVSVLLVEKAGRRTLFLTGMIGMFFCTIFMSVGLVLLDKFAWMSYVSMATAIFLVSFPEIGPGPIPF  
 MVAEFFSQGPRPTALALAAFSNWVCNFVIALCFQYIADFLGPYVFFLFAGVVLVFTLFTFFKVPETKGS  
 FEEIAAEFRKKSAPSAPRKAQVMEFLASSEV

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-MluI

Cloning Scheme:



ACCN: NM\_031197

ORF Size: 1572 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](#), [NM\\_031197.2](#), [NP\\_112474.1](#)

RefSeq Size: 2571 bp

RefSeq ORF: 1572 bp

Locus ID: 20526

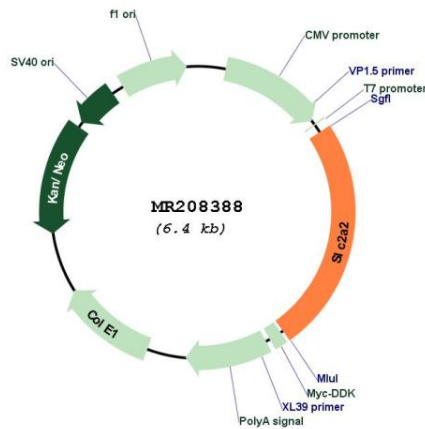
UniProt ID: [P14246](#)

**Cytogenetics:** 3 12.19 cM

**MW:** 57.1 kDa

**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 MR208388