

## Product datasheet for **MR208045**

### Slc2a5 (NM\_019741) Mouse Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	Slc2a5 (NM_019741) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc2a5
Synonyms:	A1526984; Glut5; Slc5a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR208045 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGCATCGCC**

ATGGAGGAAAAACATCAAGAGGAGACAGGGGAGCTGACATTGGTCCTTGCTCTGGCAACGCTCATCGCTG  
 CCTTTGGCTCATCTTCCAATATGGGTACAACGTAGCTGCCGTCAACTCTCCCTCAGAGTTCATGCAGCA  
 GTTTTACAATGACACCTACTACGACAGAAATGAGGAGAATATTGAGTCCCTCACCTTGACGCTGCTGTGG  
 TCCCTGACGGTGTCCATGTTCCCTTTGGGGGCTTTATAGGCTCTCTCATGGTTGGAACCTTGGTGAATA  
 AACTGGGCAGAAAAGGGGCCCTGCTGTTCAACAACATATTCTCCATCCTGCCGGCCATCTTAATGGGCTG  
 CAGCCAAATTGCCAATCGTTTGAGCTAATAATTATTTCCAGACTTCTGGTTGGAATCTGTGCAGGTATC  
 TCTTCAAACGTGGTCCCTATGTACTTAGGGGAGCTGGCCCCGAAAACCTACGAGGGGCTCTGGGAGTGG  
 TCCCGCAACTCTTCATCACTGTCGGCATCTTGTGGCCAGCTGTTTGGCCTTCGGAGTCTCTTGGCAA  
 TGAGGATGGCTGGCCAGTTCTCTGGGTCTAACTGGAGTCCCCGAGGCCTTCAGCTCCTCCTCCTCCG  
 TTCTTTCCGAGAGCCCCGCTACCTGCTGATCCAGAAGAAAGATGAAGCAGCTGCTGAGAGAGCCCTCC  
 AGACCCTCCGAGGCTGGAAGACGTGCACCTAGAGATGGAGGAGATCCGGAAGGAGGATGAGGCTGAGAA  
 GGCGGGGGCTTCATCTCTGTGTGGAAGTTGTTCACTATGCAGTCTCTCCGTTGGCAACTCATCTCCATG  
 ATTGTCCTCATGGCTGGCCAGCAGCTGTCCGGAGTGAACGCGATCTACTACTACGCCGATCAGATCTACC  
 TCAGCGCAGGCGTGAAAAGCGACGACGTCCAGTATGTGACAGCCGGGACTGGGGCCGTCATGTGTTTCA  
 GACCATCTCACGATCTTTGGTAGAGCTTTGGGGACGGCGATTCTACTCCTCGTCCGCTTCTCCACC  
 TGCCCTCATAGCCTGCTTAGTGTGACGCGCCACTGGCGCTGCAGAACCCATCTCCTGGATGCCCTATA  
 TCAGCATTTGCTGTGTCATTGTCTACGTACAGACAGCCTTAGGACCCAGCCCATCCCTGGCTGCCCTG  
 CATCACTGAGATCTTCTGCAGTCTCCCGCCAGCCGCTACATGATCGGAGGCAGTGTCCACTGGCTC  
 TCTAACTCACTGTGGGCTCATCTTCCCTTCATTCAAATGGGCCTCGTCCCTACAGTTCATTATCT  
 TTGCAACCATCTGTTTCCCTACCACCATCTACATCTTTCATGGTCGTCAGAGACCAAGGCAGGACATT  
 CATTGAGATCAACCAGATTTTTACCATGAAGAACAAGGTGTCAGACGTATATCCGAAGAAGGAGGAGGAG  
 CTTGGCGCCCTCCACACGCCATCTTGGAGCAG

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR208045 protein sequence  
 Red=Cloning site Green=Tags(s)

MEEKHQEETGELTLVLALATLIAAFGSSFYQYGNVAAVNSPSEFMQQFYNDYYDRNEENIESFTLTLW  
 SLTVSMFPFGGFIGSLMVGTLVNLGRKGALLFNNIFSILPAILMGCSQIAQSFELIIISRLLVGICAGI  
 SSNVVPMYLGELAPKNLRGALGVVPQLFITVIGILVAQLFLRSLLANEDGWPVLLGLTGVPAGLQLLLP  
 FFPESPRYLLIQKKDEAAERALQTLRGWKDVHLEEMEEIRKEDEAEKAAGFISVWKLFTMQSLRWQLISM  
 IVLMAGQQLSGVNAIYYYADQIYL SAGVKSDDVQYVYTAGTGAVNVFMTILTFVVELWGRRFLLVGFST  
 CLIACLVLTAAALQNTISWMPYISIVCVIVYVIGHALGPSPIPALLITEIFLQSSRPAAYMIGGSVHWL  
 SNFTVGLIFPFIQMLGPYSFIIIFATICFLTIIYIFMVVVPETKGRTFIEINQIFTMKNKVS DVYPKKEE  
 LGALPHAILEQ

**TRTRPLEQKLI**SEEDLAANDILDYKDDDDKV

**Restriction Sites:**

Sgfl-Mlul

Cloning Scheme:



ACCN: NM\_019741

ORF Size: 1506 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\\_019741.3](#)

RefSeq Size: 3096 bp

RefSeq ORF: 1506 bp

Locus ID: 56485

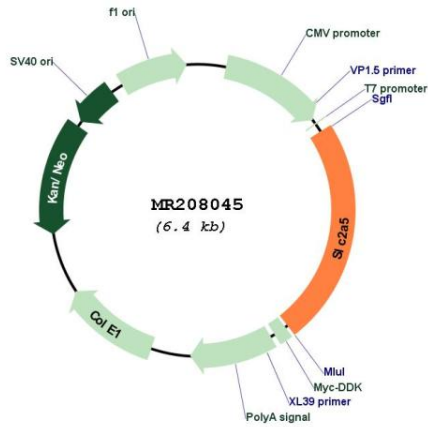
UniProt ID: [Q9WV38](#)

Cytogenetics: 4 E2

**MW:** 55.4 kDa

**Gene Summary:** Functions as a fructose transporter that has only low activity with other monosaccharides (PubMed:12031501, PubMed:19091748). Can mediate the uptake of deoxyglucose, but with low efficiency (By similarity). Essential for fructose uptake in the small intestine (PubMed:19091748, PubMed:26071406). Plays a role in the regulation of salt uptake and blood pressure in response to dietary fructose (PubMed:19091748). Required for the development of high blood pressure in response to high dietary fructose intake (PubMed:19091748).[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR208045