

Product datasheet for **MG208045**

Slc2a5 (NM_019741) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc2a5 (NM_019741) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc2a5
Synonyms:	A1526984; Glut5; Slc5a
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG208045 representing NM_019741
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGAGGAAAAACATCAAGAGGAGACAGGGGAGCTGACATTGGTCCTTGCTCTGGCAACGCTCATCGCTG
 CCTTTGGCTCATCTTCCAATATGGGTACAACGTAGCTGCCGTCAACTCTCCCTCAGAGTTCATGCAGCA
 GTTTTACAATGACACCTACTACGACAGAAATGAGGAGAATATTGAGTCCCTCACCTTGACGCTGCTGTGG
 TCCCTGACGGTGTCCATGTTCCCTTTGGGGGCTTTATAGGCTCTCTCATGGTTGGAACCTTGGTGAATA
 AACTGGGCAGAAAAGGGGCCCTGCTGTTCAACAACATAATTCTCCATCCTGCCGGCCATCTTAATGGGCTG
 CAGCCAAATTGCCAATCGTTTGGAGCTAATAATTATTTCCAGACTTCTGGTTGGAATCTGTGCAGGTATC
 TCTTCCAACGTGGTCCCTATGTACTTAGGGGAGCTGGCCCCGAAAAACCTACGAGGGGCTCTGGGAGTGG
 TCCCGCAACTCTTCATCACTGTCGGCATCCTTGTGGCCAGCTGTTTGGCCTTCGGAGTCTCTTGGCAA
 TGAGGATGGCTGGCCAGTTCCTGGGTCTAACTGGAGTCCCGCAGGCCTTCAGCTCCTCCTCCTCCCG
 TTCTTTCCCGAGAGCCCCGCTACCTGCTGATCCAGAAGAAAGATGAAGCAGCTGCTGAGAGAGCCCTCC
 AGACCCTCCGAGGCTGGAAGACGTGCACCTAGAGATGGAGGAGATCCGGAAGGAGGATGAGGCTGAGAA
 GGCGGGGGCTTCATCTCTGTGTGGAAGTTGTTCACTATGCAGTCTCTCCGTTGGCAACTCATCTCCATG
 ATTGTCCTCATGGCTGGCCAGCAGCTGTCCGGAGTGAACGCGATCTACTACTACGCCGATCAGATCTACC
 TCAGCGCAGGCGTGAAAAGCGACGACGTCCAGTATGTGACAGCCGGGACTGGGGCCGTCATGTGTTTAT
 GACCATCTCACGATCTTTGGTAGAGCTTTGGGGACGGCGATTCTACTCCTCGTCCGCTTCTCCACC
 TGCCCTCATAGCCTGCTTAGTGTGACGGCCGACTGGCGCTGCAGAACACCATCTCCTGGATGCCCTATA
 TCAGCATTGTCTGTGTCATTGTCTACGTACATAGGACACGCCTTAGGACCCAGCCCATCCTGGATGCCCTGCT
 CATCACTGAGATCTTCTGCACTCTCCCGCCAGCCGCTACATGATCGGAGGCAGTGTCCACTGGCTC
 TCTAACTCACTGTGGGCTCATCTTCCCTTCATTCAAATGGGCCTCGTCCCTACAGTTCATTATCT
 TTGCAACCATCTGTTTCCCTACCACCATCTACATCTTTCATGGTCGTCAGAGACCAAGGGCAGGACATT
 CATTGAGATCAACCAGATTTTTACCATGAAGAACAAGGTGTCAGACGTATATCCGAAGAAGGAGGAGGAG
 CTTGGCGCCCTCCACACGCCATCTTGGAGCAG

ACGCGTACGCGGCCGCTCGAG – GFP Tag – GTTTAA

Protein Sequence:

>MG208045 representing NM_019741
 Red=Cloning site Green=Tags(s)

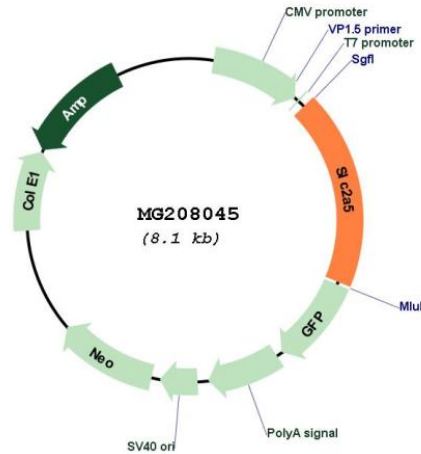
MEEKHQEETGELTLVLALATLIAAFGSSFYGYNVAAVNSPSEFMQQFYNDTYDRNEENIESFTLLW
 SLTVSMFPFGGFIGSLMVGTLVNKLGRKGALLFNNIFSILPAILMGCSQIAQSFELIIISRLLVGCAGI
 SSNVVPMYLGELAPKNLRGALGVVPQLFITVIGILVAQLFGLRSLLANEDGWVPLLGLTGVPAGLQLLLLP
 FFPESPRYLLIQKKDEAAERALQTLRGWKDVHLEMEEIRKEDEAEKAAGFISVWKLFTMQSLRWQLISM
 IVLMAGQQLSGVNAIYYADQIYLSAGVKSDDVQYVYTAGTGAVNVFMTILTIFVVELWGRRFLLLVGFST
 CLIACLVLTAAALQNTISWMPYISIVCVIVYVIGHALGPSPIPALLITEIFLQSSRPAAYMIGGSVHWL
 SNFTVGLIFPFIQMLGPYSFIIIFATICFLTTIYIFMVVPEKGRFIEINQIFTMKNKVS DVYPKKEE
 LGALPHAILEQ

TRTRPLE – GFP Tag – V

Restriction Sites:

Sgfl-MluI

Plasmid Map:



ACCN: NM_019741

ORF Size: 1503 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: 3097 bp

RefSeq ORF: 1506 bp

Locus ID: 56485

UniProt ID: [Q9WV38](#)

Cytogenetics: 4 E2

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]