

## Product datasheet for **MR220845**

### **Slc5a10 (NM\_001033227) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc5a10 (NM_001033227) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc5a10
Synonyms:	C330021F16Rik; SGLT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

**ORF Nucleotide Sequence:**

>MR220845 representing NM\_001033227  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGCTGGCAATTCCTACTGGGGATGCCCATGTTCCAGGATCCCAGCTGAGTGTACAGGACATTATTGTCA  
 TCTCTGTCTATTTGCCTTGAATGTGGCGTGGGCATATGGTCGGCTTGTGAGCCAACAAGAACACAGT  
 GAGCGGCTACTTCTGGCGGGCCGGGACATGGCTTGGTGGCCGATCGGAGCCTACTCTTTGCAAGCAGC  
 GAGGGCTCTGGCCTTTCGTAGGATTGGCCGGCTCGGGTGTGCCGAGGCTGGCTGTGGCTGGCTTTG  
 AGTGGAATGCCACATATGTGCTTTGGCTCTGGCATGGGTGTTTGTACCCATCTACATATCTTCAGAGAT  
 CGTCACCTTGCCTGAATACATTCAGAAGCGCTTGGTGGCCAGCGCATCCGCACGTACTTATCTGTCCTG  
 TCCCTGATGCTGTCTGTCTTACCAAGATATCGATTGACCTGTACGCAGGAGCCCTGTTTGTCCACATCT  
 GCCTGGGCTGAACTTCTACCTGTCCACCATCCTCAGCTCGCCATTACGGCCCTGTACACCATTGCAGG  
 GGGCCTGGCCACTGTGATATACACAGATGCCCTGCAGACAATCATCATGGTGGTGGGTGCTGTCATTTTG  
 GCAGTCAAAGCTTCAACCAGATCGGTGGTTATGAGCAGCTGGAGCGGGGTATGCCAGGCCATCCCTT  
 CCAGGACCATCCCCAACACCACCTGCCACCTGCCGCGAGCAGACGCCATGCATATGTTCCGGGACCCCTT  
 CACAGGAGACCTCCCGTGGACTGGGATGACCTTTGGTCTGACCATCATGGCCACCTGGTACTGGTGCCT  
 GACCAGGTTATTGTGCAGCGGTCCCTGTCTGCCCGAACTTGAACCATGCCAAGGAGGCTCCATTCTAG  
 CCAGCTACCTGAAGATGCTTCCCATGGGCTGATGATCATGCCAGGCATGATCAGCCGAGTACTGTTCCC  
 AGACGATGTGGGCTGTGTGGTACCATCCGAGTGTCTGCGAGCCTGTGGGGCTGAGATTGGCTGCTCAAC  
 ATTGCCTACCCGAAGCTGGTCAATGGAGCTGATGCCCATAGGTCTTCGAGGGCTGATGATCGCAGTAATGA  
 TGGCTGCTCTCCTGTATCCCTGACCTCCATCTTCAACAGCAGCAGCAGCAGCTTTTACCATTGCAGTATG  
 GAGGCAGCTTCGCCCCAGCGCGGGGAGCGAGAGTTGCTGCTGGTGGGACGGCTGGTCATCGTGGTGTCT  
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 CAATGAACAGGGGGCCTTCTGGGGCTGATGGCTGGGCTGGTGGTGGTGGTCTGAGGCTGGTCTGGAA  
 TTCCTGTACCCGGAGCCCCGTCGCGCCAAATCGATACCCGGCCAGCCCCCTCCGCAGCCTACATTACT  
 TGCCTTTGCCATTGCCCTTCTCCTCACCTGTGCTGTGATGGCCGCTGGGAGCCTACTGAGCCCGCC  
 CCCTCAGCAAAGACAGATTGAAAACCTCACCTGGTGGACTCTGGCTCCAACTGGTCTTAGGAATAAA  
 ACAGGTGATGGCCAAACACCCAGAAACGTGCTTCTGGGCCCGGTGTGTAATGTCAACGCCATCTTCC  
 TCATGTGTGTCAACATTTCTTCTATGCCTATTTTCC

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR220845 representing NM\_001033227  
 Red=Cloning site Green=Tags(s)

MAGNSTGDAHVPGSQLSVTDIIIVISVYFALNVAVGIWSACRANKNTVSGYFLAGRDMAWWPIGASLFASS  
 EGSGLFVGLAGSGAAGGLAVAGFEWNATYVLLALAWVFPVIYISSEIVTLPEYIQKRFGGQRIRTYLSVL  
 SLMLSVFTKISIDL YAGALFVHICLGWNFYLSITLTAITALYTIAGGLATVIYTDALQTIIMVVGAVIL  
 AVKAFNQIGGYEQLEAAYAQAIPSRIPNTTCHLPRADAMHFRDPSTGDL PWTGMTFGLTIMATWYWCT  
 DQVIVQRSLSARNLNHAKAGSILASYLKMLPMGLMIMPGMISRVLPDDVGCVPVSECLRACGAEIGCSN  
 IAYPKLVMELMPIGLRGLMIAVMAALLSSLTSIFNSSSTLFTMDIWRQLRPSAGERELLLVGRLLVIVVL  
 IGVSAWIPVQLQSNQSLFIYMQSVTSSLAPPVTAIFILGIFWRRANEQGAFWGLMAGLVVGLRLVLE  
 FLYPEPPCGQIDTRPAPLRSLHYLHFAIALFLLTCAVMAAGSLLSPPPQQRQIENLTWWTLPNWSLGTG  
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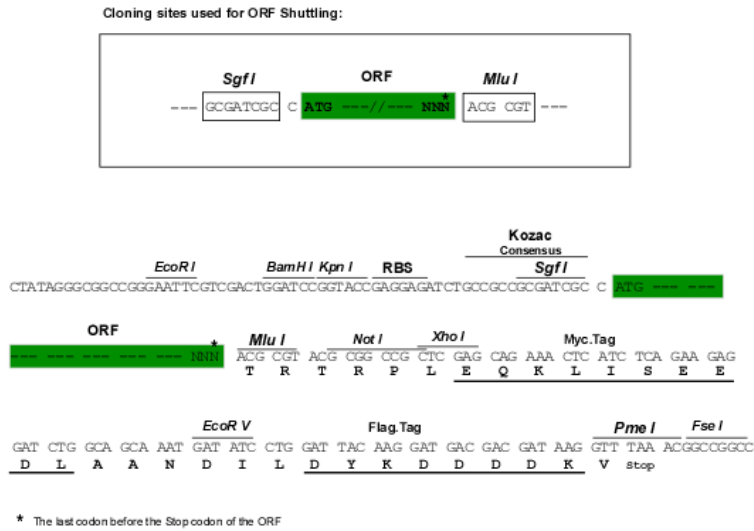
**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

**Chromatograms:**

[https://cdn.origene.com/chromatograms/mm9014\\_f12.zip](https://cdn.origene.com/chromatograms/mm9014_f12.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_001033227

ORF Size: 1788 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\\_001033227.2](#), [NP\\_001028399.1](#)

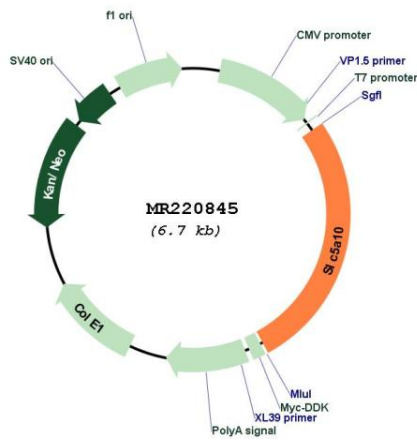
RefSeq Size: 2261 bp

RefSeq ORF: 1791 bp

Locus ID: 109342

**UniProt ID:** [Q5SWY8](#)  
**Cytogenetics:** 11 B2  
**MW:** 65.2 kDa  
**Gene Summary:** High capacity transporter for mannose and fructose and, to a lesser extent, glucose, AMG, and galactose.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR220845