

Product datasheet for **MG220845**

Slc5a10 (NM_001033227) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc5a10 (NM_001033227) Mouse Tagged ORF Clone
Tag:	TurboGFP
Symbol:	Slc5a10
Synonyms:	C330021F16Rik; SGLT5
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)



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ORF Nucleotide Sequence:

>MG220845 representing NM_001033227
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**GCGATCGCC**

ATGGCTGGCAATTCCTACTGGGGATGCCCATGTTCCAGGATCCCAGCTGAGTGTACAGGACATTATTGTCA
 TCTCTGTCTATTTTGCCTTGAATGTGGCGTGGGCATATGGTCGGCTTGTGAGCCAAACAAGAACACAGT
 GAGCGGCTACTTCTGGCAGGCCGGGACATGGCTTGGTGGCCGATCGGAGCCTACTCTTTGCAAGCAGC
 GAGGGCTCTGGCCTTTCGTAGGATTGGCCGGCTCGGGTGTGCCGGAGGCCTGGCTGTGGCTGGCTTTG
 AGTGGAATGCCACATATGTGCTTTGGCTCTGGCATGGGTGTTGTACCCATCTACATATCTTCAGAGAT
 CGTCACCTTGCCTGAATACATTAGAAGCGCTTGGTGGCCAGCGCATCCGCACGTAATTATCTGTCCTG
 TCCCTGATGCTGTCTGTCTTACCAAGATATCGATTGACCTGTACGCAGGAGCCCTGTTGTCCACATCT
 GCCTGGGTGAACTTCTACCTGTCCACCATCCTCAGCTCGCCATTACGGCCCTGTACACCATTGCAGG
 GGGCCTGGCCACTGTGATATACACAGATGCCCTGCAGACAATCATCATGGTGGTGGGTGCTGTCATTTTG
 GCAGTCAAAGCTTCAACCAGATCGGTGGTTATGAGCAGCTGGAGCGGGTATGCCAGGCCATCCCTT
 CCAGGACCATCCCCAACACCACCTGCCACCTGCCGCGAGCAGACGCCATGCATATGTTCCGGGACCCCTT
 CACAGGAGACCTCCCGTGGACTGGGATGACCTTTGGTCTGACCATCATGGCCACCTGGTACTGGTGCCT
 GACCAGGTTATTGTGCAGCGGTCCCTGTCTGCCCGAACTTGAACCATGCCAAGGCAGGCTCCATTCTAG
 CCAGCTACCTGAAGATGCTTCCCATGGGCTGATGATCATGCCAGGCATGATCAGCCGAGTACTGTTCCC
 AGACGATGTGGGCTGTGTGGTACCATCCGAGTGTCTGCGAGCCTGTGGGGCTGAGATTGGCTGCTCAAC
 ATTGCCTACCCGAAGCTGGTCAATGGAGCTGATGCCCATAGGTCTTCGAGGGCTGATGATCGCAGTAATGA
 TGGCTGCTCTCCTGTCACTCCCTGACCTCCATCTCAACAGCAGCAGCAGCAGCTTTTACCATTGCATG
 GAGGCAGCTTCGCCCCAGCGCGGGGAGCGAGAGTTGCTGCTGGTGGGACGGCTGGTTCATCGTGGTGTCT
 ATCGGTGTGAGTGTAGCCTGGATCCCGGTCTGCAGGGCTCTAACAGTGGTCAAGTCTTCTACATGC
 AGTCAGTGACCAGCTCGCTGGCGCCCCCTGTACCGCCATCTTCACTCTGGGCATCTTCTGGAGGAGGGC
 CAATGAACAGGGGGCCTTCTGGGCTGATGGCCGGGCTGGTGGTGGTGTCTGAGGCTGGTCTGGAA
 TTCCTGTACCCGGAGCCCCGTCGCGCCAAATCGATACCCGGCCAGCCCCCTCCGCAGCCTACATTACT
 TGCCTTTGCCATTGCCCTTCTCTCCTCACCTGTGCTGTGATGGCCGCTGGGAGCCTACTGAGCCCGCC
 CCCTCAGCAAAGACAGATTGAAAACCTCACCTGGTGGACTCTGGCTCAAACCTGGTCTTAGGAATAAA
 ACAGGTGATGGCCAAACACCCAGAAACGTGCTTCTGGGCCCGGTGTGTAATGTCAACGCCATCTTCC
 TCATGTGTGTCAACATTTCTTCTATGCCTATTTTGC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>MG220845 representing NM_001033227
 Red=Cloning site Green=Tags(s)

MAGNSTGDAHVPGSQLSVTDIIIVISVYFALNVAVGIWSACRANKNTVSGYFLAGRDMAWWPIGASLFASS
 EGSGLFVGLAGSGAAGGLAVAGFEWNATYVLLALAWFVPIYISSEIVTLPEYIQKRFGGQRIRTYLSVL
 SLMLSVFTKISIDL YAGALFVHICLGNWFYLSLITLAI TALIYTIAGGLATVIYTDALQTIIMVVGAVIL
 AVKAFNQIGGYEQLEAAYAQAIPSRIPNTTCHLPRADAMHMRDPSTGDL PWTGMTFGLTIMATWYWCT
 DQVIVQRSLSARNLNHAKAGSILASYLKMLPMGLMIMPGMISRVLPDDVGCVPVSECLRACGAEIGCSN
 IAYPKLVMELMPIGLRGLMIAVMMAALLSSLTSIFNSSSTLFTMDIWRQLRPSAGERELLLVGRLLVIVL
 IGVSVAWIPVLQGSNSGQLFIYMQSVTSSLAPPVTAIFILGIFWRRANEQGAFWGLMAGLVVGLRLVLE
 FLYPEPPCGQIDTRPAPLRSLHYLHFAIALFLLTCAVMAAGSLLSPPPQQRQIENLTWWTLPNWSLGTK
 TGDGQTPQKRAFWARVCNVNAIFLMCVNIFFYAYFA

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

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:	<ol style="list-style-type: none"> 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
Gene Summary:	High capacity transporter for mannose and fructose and, to a lesser extent, glucose, AMG, and galactose.[UniProtKB/Swiss-Prot Function]