

Product datasheet for **MR224710**

Slc2a8 (NM_019488) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc2a8 (NM_019488) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc2a8
Synonyms:	D2Ertd44e; GLUT8; GlutX1
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide
Sequence:**

>MR224710 ORF sequence
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGC**

ATGTCTCCCGAGGACCCAGGAGACGCAGCCGCTATTGCGGCCACCGAAGCCAGGACTCCCGCGGCC
 GCCGGGTCTTCTCGCTTCTTCGCCGCCGCTCTGGGACCCCTCAGCTTCGGCTTCGCGCTCGGCTACAG
 CTCCCCCGCCATCCCGAGCCTGCGGCGCACCGCACCCCGGCCCTGCGCTCGGAGACAATGCGGCCTCC
 TGGTTCGGGGCCGTCTGACCCTGGGCGCTGCTGCAGGGGCGATACTGGGCGGCTGGCTCCTGGACCGTG
 CAGGGCGCAAGCTGAGCCTCTTGCTCTGCACCGTGCCCTTCGTGACTGGCTTTGTGTATCACCAGCGGC
 CCGGGATGTGTGGATGCTGCTCGGAGGCCGCTCCTACCGGCCCTTGCCTGCGGAGTGCCTCACTAGTG
 GCACCGGTTTACATCTCGGAAATCGCTACCCAGCTGTCCGAGGACTGCTCGGCTCCTGTGTGCAGCTGA
 TGGTTGCTACTGGCATCCTCTGGCCTATGTGGCAGGCTGGGTCTAGAGTGGCGCTGGCTGGCCGTGCT
 GGGCTGTGTGCCCCCACCTCATGCTGCTGCTCATGTGTACATGCCGAGACCCACGTTTTCTCCTC
 ACTCAACACCACTACCAGGAGGCCATGGCTGCCTTGCCTTCTGTGGGGCTCTGAGGAGGCTGGGAAG
 AGCCCCCTGTTGGGGCTGAGCACAGGGCTTCCAGCTGGCCCTGCTGAGGCGCCCTGGCATCTACAAGCC
 CCTCATCATCGGCATTTCCCTCATGGTCTTCCAGCAGCTGTGAGGGTCAATGCTATCATGTTCTATGCC
 AACAGCATCTTCGAGGAGGCCAAGTTCAAGGACAGCAGCCTGGCTCGGTCACTGTGGGCATAATCCAGG
 TCCTGTTCACTGCTGTGGCGGCCCTCATCATGGACAGAGCAGGGCGAAGGCTGCTCCTGGCCTTGTGGG
 TGTGATCATGGTGTTCAGTATGAGTGCCTTTGGTACCTACTTCAAAGTGAAGCAGAGCCTCCCGAGCAAC
 TCCTCCACGTAGGCCTGGTGGCCATCGCGCGGAGCCTGTGGATGTCCAAGTGGGACTGGCCTGGCTGG
 CTGTAGGCAGCATGTGCCTCTTCATTGCTGGCTTTGCGGTGGGCTGGGGACCCATCCCCTGGCTCCTCAT
 GTCAGAGATCTTCCCTCTGCATGTCAAGGGTGTGGCTACCGGCATCTGCGTCTCCTACCAACTGGTTCATG
 GCCTTTCTAGTGACCAAAGATTGAGCAGCGTATGGAGATGCTCAGACCCTACGGTGCCTTCTGGCTCA
 CCGCTGCCTTCTGCGCTCTCAGTGTCTATTACACTGACCGTTGCTCCTGAGACTAAAGGCAGGACTCT
 GGAACAAGTCACAGCCCATTTCGAGGGACGA

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR224710 protein sequence
 Red=Cloning site Green=Tags(s)

MSPEDPQETQPLLRPPEARTPRGRRVFLASFAAALGPLSFGFALGYSSPAIPSLRRTAPPALRLGDNAAS
 WFGAVVTLGAAAGGILGGWLLDRAGRKLSLLCTVPFVTGFAVITAARDVWMLLGGRLLTGLACGVASLV
 APVYISEIAYPAVRGLLGSCVQLMVVTGILLAYVAGWVLEWRWLAVLGCVPTLMLLMCYMPETPRFLL
 TQHQQYQEAAMALRFLWGSEEGWEEPPVGAHQGFQLALLRRPGIYKPLIIGISLMVFQQLSGVNAIMFYA
 NSIFEEAKFKDSSLASVTVGIIQVLFATAALIMDRAGRRLLLALSGVIMVFSMSAFGTIFYKLTSGLPSN
 SSHVGLVPIAAEPVDVQVGLAWLAVGSMCLFIAGFAVGWGPWPWLLMSEIFPLHVKGVAIGICVLTNWMF
 AFLVTKEFSSVMEMLRPYGAFWLTAAFCALSVLFTLTVPETKGRITLQVTAHFEGR

TRTRPLE**QKL**ISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_019488

ORF Size: 1431 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.

Note: Plasmids are not sterile. For experiments where strict sterility is required, filtration with 0.22um filter is required.

RefSeq: [NM_019488.3](#)

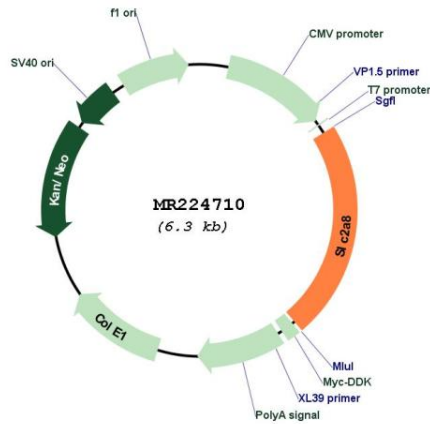
RefSeq Size: 2083 bp

RefSeq ORF: 1434 bp

Locus ID: 56017

UniProt ID:	Q9JIF3
Cytogenetics:	2 22.09 cM
MW:	51.5 kDa
Gene Summary:	Insulin-regulated facilitative hexose transporter that mediates the transport of glucose and fructose (PubMed:10821868, PubMed:10860996, PubMed:23396969). Also able to mediate the transport of dehydroascorbate (PubMed:23396969).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR224710