

Product datasheet for **MR208202**

Slc2a4 (NM_009204) Mouse Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc2a4 (NM_009204) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc2a4
Synonyms:	Glut-4; Glut4; GT2; twgy
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>MR208202 representing NM_009204
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGCCGTCGGGTTTCCAGCAGATCGGCTCTGACGATGGGGAACCCCTCGGCAGCGAGTGACTGGAACAC
 TGGTCCTAGCTGTATTCTCAGCTGTGCTTGGCTCCCTCAGTTTGGCTATAACATTGGGGTTATCAATGC
 CCCACAGAAGGTGATTGAACAGAGCTACAATGCAACGTGGCTGGGTAGGCAAGGTCTGGGGACCGGAT
 TCCATCCCACAAGGCACCCTCACTACGCTCTGGGCTCTCTCCGTGGCCATCTTCTCTGTGGGTGGCATGA
 TCTCTTCTTTCTCATTGGCATCATTTCTCAATGGTTGGGAAGGAAAAGGGCTATGCTGGCCAACAATGT
 CTTGGCCGTGTTGGGGGCGCCCTCATGGGCTAGCCAATGCCGCGCCCTCTATGAGATACTCATTCTT
 GGACGGTTCCTCATTGGCGCTACTCAGGGCTAACATCAGGGCTGGTCCCATGTATGTGGGAGAAATCG
 CCCCCACTCATCTCGGGTGCCTTGGGAACACTCAACCAACTGGCCATCGTCATTGGCATTCTGGTTGC
 CCAGGTGCTGGGCTTGGAGTCTATGCTGGGCACAGCTACCCTGTGGCCACTGCTTCTGGCTCACAGTA
 CTCCTGCTCTCCTGCAGCTGATTCTGCTGCCCTTCTGTCTGAGAGCCAGATACCTCTACATCATCC
 GGAACCTGGAGGGGCTGCCGAAAGAGTCTAAAGCGCCTGACCGGCTGGGCTGATGTGTCTGACGCACT
 AGCTGAGCTGAAGGATGAGAAACGGAAGTTGGAGAGAGAGCTCCAATGTCTTGTCTCCAGCTCCTGGGC
 AGCCGCACCCACCGGCAGCCTCTGATCATCGCAGTGGTGTGCTGAGCTGAGCCAACAGCTCTCAGGCATCA
 ATGCTGTTTTCTACTATCAACCAGCATCTTCGAGTCGGCTGGGTGGGACAGCCAGCCTACGCCACCAT
 AGGAGCTGGTGTGGTCAATACGGTCTTCACGTTGGTCTCGGTGCTTCTAGTAGAACGAGCTGGACGACGG
 ACACCTCCATCTGTTGGGCTGGCCGCATGTGTGGCTGTGCCATCTTGTGACCGTGGCTCTGCTGCTGC
 TGAACGGGTTCCAGCCATGAGCTATGCTCCATCGTGGCCATTTGGCTTTGTGGCCTCTTTGAGAT
 TGGCCCTGGCCCCATCCCTGGTTCATTGTGGCAGAGCTCTTACGCCAGGGCCCCCGCCAGCCCGCATG
 GCTGTGCTGGTTTCTCCAACCTGGACCTGTAACCTCATTGTGCGCATGGGTTTCCAGTATGTTGCGGATG
 CTATGGGTCTTACGCTCTCCTTCTATTTGCCGCTCCTCCTGCTTGGCTTCTTCTCATCTTACCTTCTCAA
 AGTGCCTGAAACCAGAGGCCGACGTTTGACCAGATCTCAGCTGCCTCCGACGGACACCTTCCCTTTTA
 GAGCAGGAGGTGAAACCCAGTACAGAATTGAATACTTAGGGCCAGATGAGAATGAC

ACGCGTACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>MR208202 representing NM_009204
 Red=Cloning site Green=Tags(s)

MPSGFQQIGSDDGEPQRVTGLVLA VFSAVLGS LQFGYNI GVINAPQKVIEQSYNATWLGRQPGGPD
 SI PQGTLTTLWALSVAIFSVGGMISSFLIGIISQWLGRKRAMLANNVLA VLGALMGLANAAASYEILIL
 GRFLIGAYSGLTSGLVPMYVGEIAPHLRGALGTLNQLAIVIGILVAQVLGLESMLGTATLWPLLLALTY
 LPALLQLILLPFCPEsprlyIIRNLEGPARKSLKRLTGWADVSDALAE LKDEKRLERERPM SLLQLLG
 SRTHRQPLIIAVVLQLSQQLSGINAVFYSTSI FESAGVGPAYATIGAGVNTVFTLVSVLLVERAGR R
 TLHLLGLAGMCGCAILMTVALLLLERV PAMSYVSIVAFGFVAF FEIGPPIPWFIVAELFSQGRPAAM
 AVAGFSNWT CNFIVGMGFQYVADAMGPYVFL LFAVLLLGFIF TFLKVPETRGRTFDQISAAFRRTPSLL
 EQEVKPS TELEYLGP DEND

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms:

https://cdn.origene.com/chromatograms/mm9016_b08.zip

Restriction Sites:

Sgfl-Mlul

Cloning Scheme:



ACCN: NM_009204

ORF Size: 1527 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_009204.2](#), [NP_033230.2](#)

RefSeq Size: 2822 bp

RefSeq ORF: 1530 bp

Locus ID: 20528

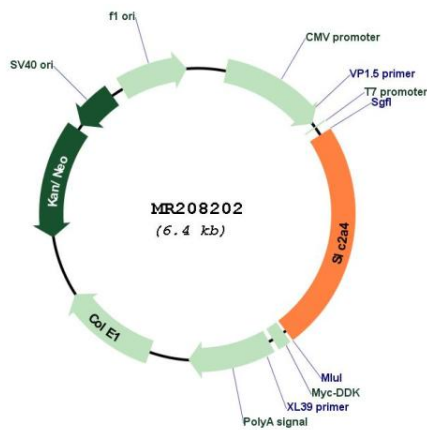
UniProt ID: [P14142](#)

Cytogenetics: 11 42.93 cM

MW: 55.2 kDa

Gene Summary: Insulin-regulated facilitative glucose transporter, which plays a key role in removal of glucose from circulation (PubMed:26240143, PubMed:26629404). Response to insulin is regulated by its intracellular localization: in the absence of insulin, it is efficiently retained intracellularly within storage compartments in muscle and fat cells (PubMed:26240143, PubMed:26629404). Upon insulin stimulation, translocates from these compartments to the cell surface where it transports glucose from the extracellular milieu into the cell (PubMed:26240143, PubMed:26629404).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MR208202