

Product datasheet for **RR215477**

Slc2a4 (NM_012751) Rat Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	Slc2a4 (NM_012751) Rat Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc2a4
Synonyms:	Glut4
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



[View online »](#)

ORF Nucleotide Sequence:

>RR215477 representing NM_012751
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGCATCGCC**

ATGCCGTCGGGTTTCCAGCAGATCGGCTCTGAAGATGGGGAACCCCTCAGCAGCGAGTGACTGGGACAC
 TGGTCCTTGCTGTATTCTCAGCTGTGCTTGGCTCCCTCAGTTTGGCTATAACATTGGAGTCATCAACGC
 CCCACAGAAAGTGATTGAACAGAGCTACAATGCAACTTGGCTGGGTAGGCAGGGTCTGGGGACCGGAC
 TCCATCCCACAAGGCACCCTCACTACCCTTTGGGCTCTCTCCGTGGCCATCTTCTCTGTGGTGCCATGA
 TTTCTCTTTCTCATTGGCATCATTTCTCAATGGTTGGGAAGAAAAGGGCTATGCTGGCCAACAATGT
 CTTGGCTGTGCTGGGGGCGCCCTCATGGGCTAGCCAATGCCGCGCCCTCTATGAGATACTCATTCTC
 GGACGGTTCCTCATTGGCGCTACTCAGGGCTAACATCAGGGTGGTGCCTATGTATGTGGGAGAAATCG
 CCCCCACTCATCTCGGGTGCCTTGGGAACACTCAACCAATTGGCCATCGTCATTGGCATTCTGGTTGC
 CCAGGTGTGGGTTTGGAGTCTATGCTGGGCACAGCTACCCTGTGGCCATTGCTTCTGGCTATCACAGTA
 CTCCTGCTCTCCTGCAGCTGCTTCTGTTGCCCTTCTGTCTGAGAGCCCCGATACCTCTACATCATCC
 GGAACCTGGAGGGGCTGCCGAAAGAGTCTAAAGCGCCTGACAGGCTGGGCTGATGTGTCTGATGCACT
 GGCTGAGCTGAAGGATGAGAAACGGAAGTTGGAAGAGAGCGTCCACTGTCTTGTGCACTCTGGGC
 AGCCGCACCCACCGCAGCCTCTGATTATTGCAGTGGTGTGCACTGAGCCAGCAGCTCTCAGGCATCA
 ATGCTGTTTTCTACTATCAACCAGCATCTTGGAGTGTAGCTGGGTGGAACAGCCAGCCTACGCCACCAT
 AGGAGCTGGTGTGGTCAATACCGTCTCACGTTGGTCTCGGTGCTTATAGTAGAGCAGCTGGGCGACGG
 ACACCTCCATCTCCTGGCCTGGCAGGCATGTGTGGCTGTGCCATTTGATGACGGTGGCTGCTGCTGCTG
 TGGAGCGGGTCCATCCATGAGTTATGTGCCATCGTGGCCATATTTGGCTTTGTGGCCTCTTTGAGAT
 TGGTCTGGCCCCATCCCCTGGTTCATTGTGGCGAGCTTTCAGCCAGGGCCCCCGCCAGCAGCCATG
 GCTGTAGCTGGTTTCTCCAAGTGGACCTGTAACCTCATCGTTGGCATGGGTTTCCAGTATGTTGCGGATG
 CTATGGGTCCTACGTCTTCTTCTATTTGCCGCTCCTCCTGCTTGGCTTCTTCTCATCTTACCTTCTTAAG
 AGTGCCTGAAACCAGAGGCCGACATTTGACCAGATCTCGGCCACCTCCGACGGACACCTTCTCTCTTA
 GAGCAGGAGGTGAAACCCAGTACAGAATTGAATACTTAGGGCCAGATGAGAATGAC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT
 ACAAGGATGACGACGATAAGGTTTAA

Protein Sequence:

>RR215477 representing NM_012751
 Red=Cloning site Green=Tags(s)

MPSGFQQIGSEDEPPQQRVTGTLVLA VFSAVLGS LQFGYNIGVINAPQKVIEQSYNATWLGRQPGGPD
 SI PQGTLTTLWALSVAIFSVGGMISSFLIGIISQWLGRKRAMLANNVLA VLGALMGLANAAASYEILIL
 GRFLIGAYSGLTSGLVPMYVGEIAPHLRGALGTLNQLAIVIGILVAQVLGLESMLGTATLWPLLLAITV
 LPALLQLLLL PFCPEsprlyIIRNLEGPARKSLKRLTGWADVSDALAE LKDEKRLERERPLSLLQLLG
 SRTHRQPLIIAVVLQLSQQLSGINAVFYSTSI FELAGVEQPAYATIGAGVNTVFTLVSVLLVERAGR
 RLHLLGLAGMCGCAILMTVALLLLERVPSMSYVSIVAI FGFVAF FEIGPGPIPWFIVAELFSQGRPAAM
 AVAGFSNWT CNFIVGMGFQYVADAMGPYVFL LFAVLLLGFFIFTFLRPETRGRTFDQISATFRRTPSLL
 EQEVKPS TELEYLGP DEND

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Restriction Sites:

Sgfl-MluI

Cloning Scheme:



ACCN: NM_012751

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.

RefSeq: [NM_012751.1](#), [NP_036883.1](#)

RefSeq Size: 2506 bp

RefSeq ORF: 1530 bp

Locus ID: 25139

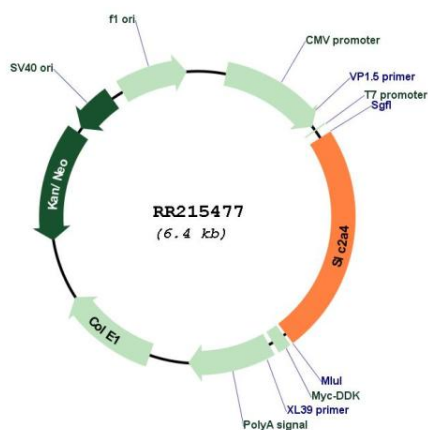
UniProt ID: [P19357](#)

Cytogenetics: 10q24

MW: 54.9 kDa

Gene Summary: transports glucose; may play a role in insulin response [RGD, Feb 2006]

Product images:



Circular map for RR215477