

## Product datasheet for **MR209506**

### **Slc2a12 (NM\_178934) Mouse Tagged ORF Clone**

#### **Product data:**

Product Type:	Expression Plasmids
Product Name:	Slc2a12 (NM_178934) Mouse Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	Slc2a12
Synonyms:	GLUT-12; Glut12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>MR209506 representing NM\_178934  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTACCTGTTGAAAACACAGAGGGCCCAATCTGCTGAACCAGAAGGGGAGAGAGCGGAGACCGAAG  
 GCAGCTGTGGAGCCAGCGCGGAGGGCATCCTGCCTGCGCGGGAGGTCCCAGCATGTTTACGTTCCCTGAC  
 ATCTGTTACTGCAGCCATCAGCGCCTCCTGGTGGTTATGAACTTGGGCTCATCTCTGGAGCTCTTCTG  
 CAGATCAGAACGCTATTAGCCCTGACCTGCCACGAGCAGGAAATGGTTGTGAGTTCCTCCTCATCGGGG  
 CATTCTCGCCTCTCTCACAGGAGCGTGCTCATAGACAGGTACGGAAGAAGGCTCGCCATAATCCTGTC  
 ATCCTGCCTCCTAGGACTTGAAGCTTGGTCTTGATAATGAGTTTGTCTACACGCTCCTATAATGGGG  
 AGAGTGGCTATAGGGTTCCATATCCCTGTCTCCATTGCCACGTGTGTACATTGCGGAAATGGCC  
 CCCAACACAGAAGAGGACTTCTGTGTCGTTGAATGAGCTGATGATTGCTACTGGTATTCTTTGCCTA  
 TATTTCAAATTATGCATTTGCCAACATCTCCAATGGTTGGAAGTATATGTTTGGCCTTGATCCCCCTG  
 GGAGTTCTGCAAGCAATAGCGATGACTTTCTTCCCCAAGTCCCTCGTTTCTGGTGATGAAGGGACAAG  
 AGGAGTCGGCAGGCAAAGTCTCAGGAAGTTAAGAGTGATCTCAGACACCACTGAAGAACTCACTTTGAT  
 CAAATCTTCTTGAAAGATGAGTATCAGTACAGTTTTTGGGATCTGTTTCGCTCTAAGGACAACATGAGG  
 ACCAGAATCCTGATAGGTCTGACACTGGTATTTTTGTCCAGACCACTGGGCAGCCAAACATACTATTCT  
 ACGCATCAACTGTCTTGAAGTCTGTTGGCTCCAGAGCAATGAGGCAGCTAGCCTTGCCCTCACTGGGGT  
 GGGAGTGGTCAAGGTGGTTAGCACTATCCAGCAACCCCTCTTGTGGACCACATTGGCAGCAAAACCTTC  
 CTCTGTATTGGCTCCTCCGTGATGTCGCTTCACTGTTGACCATGGCATTGTGAACCTCAACATCAATA  
 TGAATTCACCAACATCTGCAGAAGCCATAGTCTTCTTAACCAGTCCCTGGAGGAGTTTGTGTTCTATGC  
 AACAGGAAACCTGTCAATTAGCAATAGCAGTCTCAGGGAGCACTTAAAAGAATCACTCCCTACAGCAAG  
 GGCTGTTTTATGCCATGGGGAATGGCATGGAGCCGAAAGGGGAGATGACCTTACGTCGCTTTACCAA  
 ATGCTGGACTGAGCCGAACCTGAACACCAGGGAGTCACAGACACTGCAGTCGTCCAGCTGCTTACAAATG  
 GCTGTCCCTGGCCAGCTTGTGTTTATGTGGCTGCATTTTCAATTGGTCTGGGACCCATGCCTTGTTG  
 GTGCTTAGTGAGATCTTCCCGTGGAATTAGAGGCCGCGCCATGGCCCTGACATCTAGCATGAAGTGGG  
 GTGTCAACCTTCTCATCTTTTACATTTCTGACAGTACTGATCTTATTGGTTTGCATGGGTATGCTT  
 CATATACAAATCATGAGTCTGGCATCGCTGGCTTTTGTGTTCTGTTTATACCTGAGACTAAGGGATGC  
 TCTTTGGAACAAATATCAGTGGAGCTAGCAAAGGCGAAGTATGTGAAAAACAACATTTGTTTATGAGTC  
 ATCACCAGGAAGAATTAGTGCCAACACAGCTTCAAAAACGAAAGCCCAAGAGCAGCTCCAGAGGTAA  
 CCACCTGTGTGGAAGGGGACAGTCAACCGCCCTCGCCAGACACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>MR209506 representing NM\_178934  
 Red=Cloning site Green=Tags(s)

MVPVENTEGPNLLNQKGREAEETEGSCGASGGGHPACAGGSPMFTFLTSTVTAASIGLLVGYELGLISGALL  
 QIRTLALTCHEQEMVSSLLIGAFLASLTGGVLIDRYGRRLAIISSCLLGLGSLVLIIMSLSYTLLIMG  
 RVAIGVISLSIATCVYIAEIAIQHRRLLVSLNELMIVTGILFAYISNYAFANISNGWKYMFGLVIPL  
 GVLQAIAMYFLPPSPRFLVMKQGEESAGKVLRLRVIDTTEELTLIKSSLKDEYQYSFWDLFRSKDNMR  
 TRILIGLTLVFFVQTTGQPNILFYASTVLKSVGFQSNAAASLASTGVGVVKVVSTIPATLLVDHIGSKTF  
 LCISSVMSASLLTMGIVNLIINMFTNCRSHLLNQSLLEEFVYATGNLSISNSSLREHFKRITPYSK  
 GSFMPMNGMEPKGEMFTFTSSLPNAGLSRTEHQGVTDTAIVVPAAYKWLASLLVYVAAFISIGLGMPWL  
 VLSEIFPGGIRGRAMALTSMMNWGNLLISLFTLTVTDLIGLSWVCFIYTIMSLASLAFVVLFIPEKTKG  
 SLEQISVELAKANYVKNNICFMSHHQEELVPTQLQKRKPQEQLPECNHLGCRGQSQRSPDT

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mm9027\\_b12.zip](https://cdn.origene.com/chromatograms/mm9027_b12.zip)  
 Restriction Sites: SgfI-MluI  
 Cloning Scheme:



ACCN: NM\_178934

ORF Size: 1866 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at [custsupport@origene.com](mailto:custsupport@origene.com) or by calling 301.340.3188 option 3 for pricing and delivery.

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\\_178934.4](#), [NP\\_849265.2](#)

**RefSeq Size:** 3762 bp

**RefSeq ORF:** 1869 bp

**Locus ID:** 353169

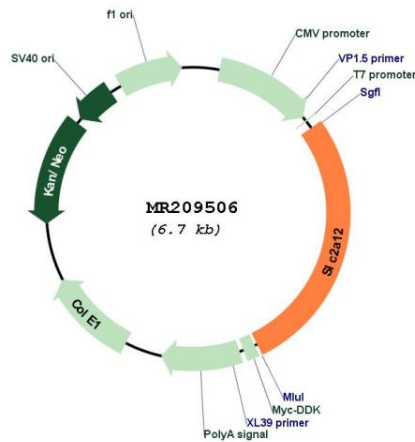
**UniProt ID:** [Q8BFW9](#)

**Cytogenetics:** 10 A3

**MW:** 67.8 kDa

**Gene Summary:** Insulin-independent facilitative glucose transporter.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR209506