

## Product datasheet for **RC209979**

### GLUT12 (SLC2A12) (NM\_145176) Human Tagged ORF Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLUT12 (SLC2A12) (NM_145176) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	GLUT12
Synonyms:	GLUT8; GLUT12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)



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**ORF Nucleotide Sequence:**

>RC209979 ORF sequence  
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC  
 GCC**CGGATCGCC**

ATGGTACCTGTTGAAAACACCGAGGGCCCCAGTCTGCTGAACCAGAAGGGGACAGCCGTGGAGACGGAGG  
 GCAGCGCAGCCGCATCCTCCCTGGGCGAGAGGCTGCGGCATGTTTACCTTCTGTCTGCTCACTGC  
 TGCTGTACAGTGGCCTCCTGGTGGTTATGAACTTGGGATCATCTCTGGGCTCTTCTTCCAGATCAAACC  
 TTATTAGCCCTGAGCTGCCATGAGCAGGAAATGGTTGTGAGCTCCCTCGTCATTGGAGCCCTCCTTGCCT  
 CACTCACCGGAGGGTCTGATAGACAGATATGGAAGAAGGACAGCAATCATCTTGTCTGCTGCTGCT  
 TGGACTCGGAAGCTTAGTCTTGTATCCTCAGTTTATCCTACACGGTTCTTATAGTGGGACGCATTGCCATA  
 GGGGTCTCCATCTCCCTCTTCCATTGCCACTTGTGTTACATCGCAGAGATTGCTCCTCAACACAGAA  
 GAGGCCTTCTTGTGCTCACTGAATGAGCTGATGATTGTCATCGGCATTCTTCTGCCTATATTTCAAATTA  
 CGCATTTGCCAATGTTTTCCATGGCTGGAAGTACATGTTTGGTCTTGTGATTCCCTTGGGAGTTTGC  
 GCAATTGCAATGTATTTCTTCCCAAGCCCTCGGTTTCTGGTATGAAAGGACAAGAGGGAGCTGCTA  
 GCAAGGTTCTTGGAAGGTTAAGAGCACTCTCAGATACAACCTGAGGAACTCACTGTGATCAATCCTCCCT  
 GAAAGATGAATATCAGTACAGTTTTTGGGATCTGTTTCGTTCAAAAGACAACATGCGGACCCGAATAATG  
 ATAGGACTAACACTAGTATTTTTGTACAAATCACTGGCCAACCAACATATTGTTCTATGCATCAACTG  
 TTTTGAAGTCAGTTGGATTTCAAAGCAATGAGGCAGCTAGCCTCGCTCCACTGGGGTGGAGTCGTCAA  
 GGTCATTAGCACCATCCCTGCCACTCTTCTGTAGACCATGTTGGCAGCAAAACATTCTCTGCATTGGC  
 TCCTCTGTGATGGCAGCTTCGTTGGTGACCATGGGCATCGTAAATCTCAACATCCACATGAACCTCACCC  
 ATATCTGCAGAAGCCACAATTCTATCAACCAGTCTTGGATGAGTCTGTGATTTATGGACCAGGAAACT  
 GTCAACCAACAACAATACTCTCAGAGACCACTTCAAAGGGATTTCTTCCATAGCAGAAGCTCACTCATG  
 CCCCTGAGAAATGATGTGGATAAGAGAGGGGAGACGACCTCAGCATCCTTGCTAAATGCTGGATTAAGCC  
 ACACTGAATACCAGATAGTCACAGACCCTGGGACGTCCCAGCTTTTTTGAATGGCTGCTTAGCCAG  
 CTTGCTTGTATGTTGCTGCTTTTTCAATTGGTCTAGGACCAATGCCCTGGCTGGTGTCTCAGCGAGATC  
 TTTCTGGTGGGATCAGAGGACGAGCCATGGCTTAACTTCTAGCATGAACTGGGCATCAATCTCCTCA  
 TCTCGTGACATTTTTGACTGTAAGTATCTTATTGGCCTGCCATGGGTGTGCTTATATATAAATCAT  
 GAGTCTAGCATCCCTGCTTTTTGTTGTTATGTTTATACCTGAGACAAAGGGATGCTTTTGAACAATA  
 TCAATGGAGCTAGCAAAGTGAAGTATGTAAAAACAACATTTGTTTTATGAGTCATACCAAGAAGAAT  
 TAGTGCCAAAACAGCCTCAAAAAGAAAACCCAGGAGCAGCTCTGGAGTGAACAAGCTGTGTGTAG  
 GGGCAATCCAGGAGCTTTCTCCAGAGACC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
 ACAAGGATGACGACGATAAGGTTTAA

**Protein Sequence:**

>RC209979 protein sequence  
 Red=Cloning site Green=Tags(s)

MVPVENTEGPSSLNQGTA VETEGSGSRHPPWARGCMFTFLSSVTA AVSGLLVGYELGIISGALLQIKT  
 LLALSCHQEMVSSLVIGALLASLTGGVLIDRYGRRTAII LSSCLLGLGSLVLI LSLSYTVLIVGRIAI  
 GVSISLSSIATCVYIAE IAPQHRRLVLSNELMIVIGIL SAYISNYAFANV FHGWKYMFG LVIPLGVLQ  
 AIAMYFLPPSPRFLVMKQGEAASKVLGRLRALSDTTEELTVIKSSLKDEYQYSF WDLFRSKDNMRTRIM  
 IGLTLVFFVQITGQPNILFYASTVLKSVGFQSNEAASLASTG VGVVVKVISTIPATLLVDHVGSKTFLCIG  
 SSMYMAASLVTMGIVNLNIHMNFTHICRSHNSINQSLDES VIYGPGLSTNNNTLRDHFKGISSHSRSSLM  
 PLRNDVDKRGETTASLLNAGLSHTEYQIVTDPGDVPAFLKWL SLASLLVYVAAFS IGLGMPWLVLSEI  
 FPGGIRGRAMALTSMMNWGINLLISLFTLVTDLI GLPWVCFIYTIMSLASLLFVVMFIPETKGSLEQI  
 SMELAKVNYVKNNICFMSHHQEELVPKQPQKRKPQEQLLECNKLCGRGQSRQLSPET

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: [https://cdn.origene.com/chromatograms/mk6671\\_a04.zip](https://cdn.origene.com/chromatograms/mk6671_a04.zip)

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM\_145176

ORF Size: 1851 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\\_145176.3](#)

RefSeq Size: 5599 bp

RefSeq ORF: 1854 bp

Locus ID: 154091

UniProt ID: [Q8TD20](#)

Cytogenetics: 6q23.2

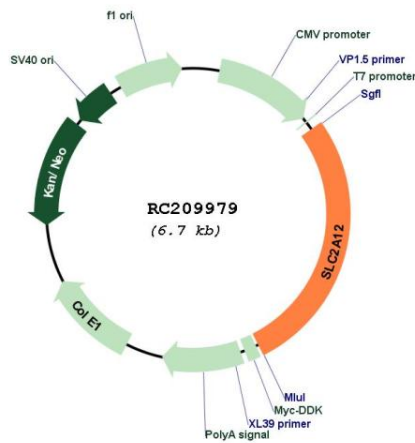
Domains: sugar\_tr

Protein Families: Transmembrane

MW: 67 kDa

Gene Summary: SLC2A12 belongs to a family of transporters that catalyze the uptake of sugars through facilitated diffusion (Rogers et al., 2002). This family of transporters show conservation of 12 transmembrane helices as well as functionally significant amino acid residues (Joost and Thorens, 2001 [PubMed 11780753]).[supplied by OMIM, Mar 2008]

### Product images:



Circular map for RC209979