

Product datasheet for **RG209979**

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: | TurboGFP |
| Symbol: | SLC2A12 |
| Synonyms: | GLUT8; GLUT12 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-AC-GFP (PS100010) |
| E. coli Selection: | Ampicillin (100 ug/mL) |



[View online »](#)

ORF Nucleotide Sequence:

>RG209979 representing NM_145176
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGGATCGCC**

ATGGTACCTGTTGAAAACACCGAGGGCCCCAGTCTGCTGAACCAGAAGGGGACAGCCGTGGAGACGGAGG
 GCAGCGCAGCCGCATCCTCCCTGGGCGAGAGGCTGCGGCATGTTTACCTTCTGTCTCATCTGCACTGC
 TGCTGTACAGTGGCCTCCTGGTGGTTATGAACTTGGGATCATCTCTGGGCTCTTCTTCCAGATCAAACC
 TTATTAGCCCTGAGCTGCCATGAGCAGGAAATGGTTGTGAGCTCCCTCGTCATTGGAGCCCTCCTTGCCT
 CACTCACCGGAGGGTCTGATAGACAGATATGGAAGAAGGACAGCAATCATCTTGTCTCATCTGCCTGCT
 TGGACTCGGAAGCTTAGTCTTGTATCCTCAGTTTATCCTACACGGTTCTTATAGTGGGACGCATTGCCATA
 GGGGTCTCCATCTCCCTCTTCCATTGCCACTTGTGTTACATCGCAGAGATTGCTCCTCAACACAGAA
 GAGGCCTCTTGTGCTACTGAATGAGCTGATGATTGTCATCGGCATTCTTCTGCCTATATTTCAAATTA
 CGCATTTGCCAATGTTTTCCATGGCTGGAAGTACATGTTTGGTCTTGATTCCCTTGGGAGTTTTGCAA
 GCAATTGCAATGATTTTTCTTCCCAAGCCCTCGGTTTCTGGTATGAAAGGACAAGAGGGAGCTGCTA
 GCAAGGTTCTTGGAAAGTTAAGAGCACTCTCAGATACAACCTGAGGAACTCACTGTGATCAATCCTCCCT
 GAAAGATGAATATCAGTACAGTTTTTGGGATCTGTTTCGTTCAAAAGACAACATGCGGACCCGAATAATG
 ATAGGACTAACACTAGTATTTTTGTACAAATCACTGGCCAACCAACATATTGTTCTATGCATCAACTG
 TTTTGAAGTCAGTTGGATTTCAAAGCAATGAGGCAGCTAGCCTCGCCTCCACTGGGGTGGAGTCGTCAA
 GGTCATTAGCACCATCCCTGCCACTCTTCTGTAGACCATGTTGGCAGCAAAACATTCTCTGCATTGGC
 TCCTCTGTGATGGCAGCTTCGTTGGTGACCATGGGCATCGTAAATCTCAACATCCACATGAACCTCACCC
 ATATCTGCAGAAGCCACAATTCTATCAACCAGTCTTGGATGAGTCTGTGATTTATGGACAGGAAACCT
 GTCAACCAACAACAATACTCTCAGAGACCACTTCAAAGGGATTTCTTCCATAGCAGAAGCTCACTCATG
 CCCCTGAGAAATGATGTGGATAAGAGAGGGGAGACGACCTCAGCATCCTTGCTAAATGCTGGATTAAGCC
 ACACTGAATACCAGATAGTCACAGACCCTGGGACGTCCCAGCTTTTTGAAATGGCTGCTTAGCCAG
 CTTGCTTGTATGTTGCTGCTTTTTCAATTGGTCTAGGACCAATGCCCTGGCTGGTGTCTCAGCGAGATC
 TTTCTGGTGGGATCAGAGGACGAGCCATGGCTTAACTTCTAGCATGAACTGGGCATCAATCTCCTCA
 TCTCGTGACATTTTTGACTGTAACCTGATCTTATTGGCCTGCCATGGGTGTGCTTTATATACAATCAT
 GAGTCTAGCATCCCTGCTTTTTGTTGTTATGTTTATACCTGAGACAAAGGGATGCTTTTGAACAATA
 TCATGGAGCTAGCAAAGTGAACCTATGTAAAAACAACATTTGTTTATGAGTCATCACCAGAAGAAT
 TAGTGCCAAAACAGCCTCAAAAAGAAAACCCAGGAGCAGCTCTGGAGTGAACAAGCTGTGTGGTAG
 GGGCAATCCAGGCAGCTTTCTCCAGAGACC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

>RG209979 representing NM_145176
 Red=Cloning site Green=Tags(s)

MVPVENTEGPSLLNQGTA VETEGSGSRHPPWARGCMFTFLSSVTA AVSGLLVGYELGIISGALLQIKT
 LLALSCHQEMVSSLVIGALLASLTGGVLIDRYGRRTAII LSSCLLGLGSLVLI LSLSYTVLIVGRIAI
 GVSISLSSIATCVYIAE IAPQHRRLLVSLNELMIVIGILSAYISNYAFANVFHWKYMFGLVIPLVLQ
 AIAMYFLPPSPRFLVMKGQEGAASKVLGRLRALSDTTEELTVIKSSLKDEYQYSFWDLFRSKDNMRTRIM
 IGLTLVFFVQITGQPNILFYASTVLKSVGFQSNAAASLASTGVGVVVKVISTIPATLLVDHVGSKTFLCIG
 SSVMAASLVTMGIVNLNIHMNFTHICRSHNSINQSLDESVIYGPGLSTNNNTLRDHFKGISSHSRSSLM
 PLRNDVDKRGETTSASLLNAGLSHTEYQIVTDPGDVPAFLKWL SLASLLVYVAAF SIGLGPMPWLVLSEI
 FPGGIRGRAMALTSSMNWGINLLISLFTLVTDLIGLPWVCFIYTIMSLASLLFVVMFIPETKGCLEQI
 SMELAKVNYVKNNICFMSSHQEELVPKQPQKRKPQEQLL ECNKL CGRQSRQLSPET

TRTRPLE - GFP Tag - V

Restriction Sites:

SgfI-MluI

| | |
|-------------------------------|---|
| 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: | <ol style="list-style-type: none">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_145176.2 , NP_660159.1 |
| RefSeq Size: | 5599 bp |
| RefSeq ORF: | 1854 bp |
| Locus ID: | 154091 |
| UniProt ID: | Q8TD20 |
| Cytogenetics: | 6q23.2 |
| Domains: | sugar_tr |
| Protein Families: | Transmembrane |
| 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] |