

## Product datasheet for **SC324556**

### GLUT12 (SLC2A12) (NM\_145176) Human Untagged Clone

#### Product data:

Product Type:	Expression Plasmids
Product Name:	GLUT12 (SLC2A12) (NM_145176) Human Untagged Clone
Tag:	Tag Free
Symbol:	GLUT12
Synonyms:	GLUT8; GLUT12
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC (PS100020)
E. coli Selection:	Ampicillin (100 ug/mL)



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**Fully Sequenced ORF:** >OriGene sequence for NM\_145176.2  
 ACACTCTTCTTTAGCATGCTATTATGGGGAAAGTGACCACTCCTGGGAGCGGGGGTGGTC  
 GGGGCGGTTTTGGTGGCGGGGAAGCGGCTGTAACCTCTACGTGACCATGGTACCTGTTGAA  
 AACACCGAGGGCCCCAGTCTGCTGAACCAGAAGGGGACAGCCGTGGAGACGGAGGGCAGC  
 GGCAGCCGGCATCCTCCCTGGGCGAGAGGCTGCGGCATGTTTACCTTCTGTCATCTGTC  
 ACTGCTGCTGTCAGTGGCCTCCTGGTGGTTATGAACTGGGATCATCTCTGGGGCTCTT  
 CTTCAGATCAAAAACCTTATTAGCCCTGAGCTGCCATGAGCAGGAAATGGTTGTGAGCTCC  
 CTGTCATTGGAGCCCTCCTTGCCTCACTCACCGGAGGGTCTGATAGACAGATATGGA  
 AGAAGGACAGCAATCATCTTGTCTCCTGCCTGCTTGGACTCGGAAGCTTAGTCTTGATC  
 CTCAGTTTATCTACACGGTTCTTATAGTGGGACGCATTGCCATAGGGGTCTCCATCTCC  
 CTCTCTCCATTGCCACTTGTGTTTACATCGCAGAGATTGCTCCTCAACACAGAAGAGGC  
 CTTCTTGTGTCAGTGAATGAGCTGATGATTGTCATCGGCATTCTTCTGCCTATATTTCA  
 AATTACGCATTTGCCAATGTTTTCCATGGCTGGAAGTACATGTTTGGTCTGTGATTCCC  
 TTGGGAGTTTTGCAAGCAATTGCAATGTATTTTCTTCTCAAGCCCTCGGTTTCTGGTG  
 ATGAAAGGACAAGAGGGAGCTGCTAGCAAGTTCTTGGAAAGTTAAGAGCACTCTCAGAT  
 ACAACTGAGGAACTCACTGTGATCAAATCCTCCCTGAAAGATGAATATCAGTACAGTTTT  
 TGGGATCTGTTTCGTTCAAAAGACAACATGCGGACCCGAATAATGATAGGACTAACACTA  
 GTATTTTTTGTACAAATCACTGGCCAACCAACATATTGTTCTATGCATCAACTGTTTTG  
 AAGTCAGTTGGATTTCAAAGCAATGAGGCAGCTAGCCTCGCCTCCACTGGGGTTGGAGTC  
 GTCAAGGTCATTAGCACCATCCCTGCCACTCTTCTTGTAGACCATGTTGGCAGCAAAAACA  
 TTCTCTGCATTGGCTCCTCTGTGATGGCAGCTTCTTGGTGACCATGGGCATCGTAAAT  
 CTCAACATCCACATGAACTTCACCCATATCTGCAGAAGCCACAATTCTATCAACCAAGTCC  
 TTGGATGAGTCTGTGATTTATGGACCAGGAAACCTGTCAACCAACAACAATACTCTCAGA  
 GACCACCTTCAAAGGGATTTCTTCCCATAGCAGAAGCTCACTCATGCCCCCTGAGAAATGAT  
 GTGGATAAGAGAGGGGAGACGACCTCAGCATCCTTGTAAATGCTGGATTAAGCCCACT  
 GAATACCAGATAGTCACAGACCCCTGGGACGTCCAGCTTTTTTGAATGGCTGTCCTTA  
 GCCAGCTTGCTTGTATGTTGCTGCTTTTTCAATTGGTCTAGGACCAATGCCCTGGCTG  
 GTGCTCAGCGAGATCTTCTGGTGGGATCAGAGGACGAGCCATGGCTTTAACTTCTAGC  
 ATGAACTGGGGCATCAATCTCCTCATCTCGCTGACATTTTACTGTAAGTATCTTATT  
 GGCCTGCCATGGGTGTGCTTTATATATAAATCATGAGTCTAGCATCCCTGCTTTTTGTT  
 GTTATGTTTATACCTGAGACAAAGGGATGCTCTTGGAAACAAATATCAATGGAGTAGCA  
 AAAGTGAATATGTGAAAAACAACATTTGTTTTATGAGTCATCACCAAGAAGAATTAGTG  
 CAAAAACAGCCTCAAAAAGAAAACCCAGGAGCAGCTTGGAGTGTAACAAGCTGTGT  
 GGTAGGGGCCAATCCAGGCAGCTTTCTCCAGAGACCTAATGGCCTCAACACCTTCTGAAC  
 GTGGATAGTGCCAGAACACTTAGGAGGGTGTCTTGGACCAATGCATAGTTGCGACTCCT  
 GTGCTCTTTTTAGTGTGATGGAAGTGGTTTTGAAGAGACACTGAAATGATAAAGAC  
 AGCCTTTAATCCCCCTCCTCCCCAGAAGGAACCTAAAAGGTAGATGAGGTACAAGGTCC  
 TAAGTGATCTCTTTTTCTGAGCAGGATATCAGGCAAAAAAAAAAAAAAAAAAAAAAAAAAAA  
 AAA

**Restriction Sites:** Please inquire

**ACCN:** NM\_145176

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative RNA splicing form or single nucleotide polymorphism (SNP).

**OTI Annotation:** This TrueClone is provided through our Custom Cloning Process that includes sub-cloning into OriGene's pCMV6 vector and full sequencing to provide a non-variant match to the expected reference without frameshifts, and is delivered as lyophilized plasmid DNA.

<b>Components:</b>	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).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>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.</li></ol>
<b>RefSeq:</b>	<u><a href="#">NM_145176.2</a></u> , <u><a href="#">NP_660159.1</a></u>
<b>RefSeq Size:</b>	5599 bp
<b>RefSeq ORF:</b>	1854 bp
<b>Locus ID:</b>	154091
<b>UniProt ID:</b>	<u><a href="#">Q8TD20</a></u>
<b>Cytogenetics:</b>	6q23.2
<b>Domains:</b>	sugar_tr
<b>Protein Families:</b>	Transmembrane
<b>Gene Summary:</b>	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]