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Product datasheet for SC127810

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:	None
Vector:	pCMV6-XL6
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene ORF within SC127810 sequence for NM_145176 edited (data generated by NextGen Sequencing)

ATGGTACCTGTTGAAAACACCGAGGGCCCCAGTCTGCTGAACCAGAAGGGGACAGCCGTG
GAGACGGAGGGCAGCGGCAGCCGGCATCCTCCCTGGGCGAGAGGCTGCGGCATGTTTACC
TTCCTGTCATCTGTCACTGCTGCTGTCAGTGGCCTCCTGGTGGGTTATGAACTTGGGATC
ATCTCTGGGGCTCTTCTTCAGATCAAAACCTTATTAGCCCTGAGCTGCCATGAGCAGGAA
ATGGTTGTGAGCTCCCTCGTCATTGGAGCCCTCCTTGCCTCACTCACCGGAGGGGTCCTG
ATAGACAGATATGGAAGAAGGACAGCAATCATCTTGTCATCCTGCCTGCTTGGACTCGGA
AGCTTAGTCTTGATCCTCAGTTTATCCTACACGGTTCTTATAGTGGGACGCATTGCCATA
GGGGTCTCCATCTCCCTCTCTTCCATTGCCACTTGTGTTTACATCGCAGAGATTGCTCCT
CAACACAGAAGAGGCCTTCTTGTGTCACTGAATGAGCTGATGATTGTCATCGGCATTCTT
TCTGCCTATATTTCAAATTACGCATTTGCCAATGTTTTCCATGGCTGGAAGTACATGTTT
GGTCTTGTGATTCCCTTGGGAGTTTTGCAAGCAATTGCAATGTATTTTCTTCCTCCAAGC
CCTCGGTTTCTGGTGATGAAAGGACAAGAGGGAGCTGCTAGCAAGGTTCTTGGAAGGTTA
AGAGCACTCTCAGATACAACTGAGGAACTCACTGTGATCAAATCCTCCCTGAAAGATGAA
TATCAGTACAGTTTTTGGGATCTGTTTCGTTCAAAAGACAACATGCGGACCCGAATAATG
ATAGGACTAACACTAGTATTTTTTGTACAAATCACTGGCCAACCAAACATATTGTTCTAT
GCATCAACTGTTTTGAAGTCAGTTGGATTTCAAAGCAATGAGGCAGCTAGCCTCGCCTCC
ACTGGGGTTGGAGTCGTCAAGGTCATTAGCACCATCCCTGCCACTCTTCTTGTAGACCAT
GTCGGCAGCAAAACATTCCTCTGCATTGGCTCCTCTGTGATGGCAGCTTCGTTGGTGACC
ATGGGCATCGTAAATCTCAACATCCACATGAACTTCACCCATATCTGCAGAAGCCACAAT
TCTATCAACCAGTCCTTGGATGAGTCTGTGATTTATGGACCAGGAAACCTGTCAACCAAC
AACAATACTCTCAGAGACCACTTCAAAGGGATTTCTTCCCATAGCAGAAGCTCACTCATG
CCCCTGAGAAATGATGTGGATAAGAGAGGGGAGACGACCTCAGCATCCTTGCTAAATGCT
GGATTAAGCCACACTGAATACCAGATAGTCACAGACCCTGGGGACGTCCCAGCTTTTTTG
AAATGGCTGTCCTTAGCCAGCTTGCTTGTTTATGTTGCTGCTTTTTCAATTGGTCTAGGA
CCAATGCCCTGGCTGGTGCTCAGCGAGATCTTTCCTGGTGGGATCAGAGGACGAGCCATG
GCTTTAACTTCTAGCATGAACTGGGGCATCAATCTCCTCATCTCGCTGACATTTTTGACT
GTAACTGATCTTATTGGCCTGCCATGGGTGTGCTTTATATATACAATCATGAGTCTAGCA
TCCCTGCTTTTTGTTGTTATGTTTATACCTGAGACAAAGGGATGCTCTTTGGAACAAATA
TCAATGGAGCTAGCAAAAGTGAACTATGTGAAAAACAACATTTGTTTTATGAGTCATCAC
CAAGAAGAATTAGTGCCAAAACAGCCTCAAAAAAGAAAACCCCAGGAGCAGCTCTTGGAG
TGTAACAAGCTGTGTGGTAGGGGCCAATCCAGGCAGCTTTCTCCAGAGACCTAA

Clone variation with respect to NM_145176.2

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_145176 unedited

NACGTCTAACACCCGCCCGTTGCCGCAAAGGGCGGTAGGCGTGTACGGTGGGAGGTCTAT
ATAAGCAGAGCTCATTTAGGTGACACTATAGAATACAAGCTACTTGTTCTTTTTGCAGCG
GCCGCGAATTCGGCACGAGGGTTTTTCCCCACACTCTTCTTTAGCATGCTATTATGGGGA
AAGTGACCACTCCTGGGAGCGGGGGTGGTCGGGGCGGTTTGGTGGCGGGGAAGCGGCTGT
AACTTCTACGTGACCATGGTACCTGTTGAAAACACCGAGGGCCCCAGTCTGCTGAACCAG
AAGGGGACAGCCGTGGAGACGGAGGGCAGCGGCAGCCGGCATCCTCCCTGGGCGAGAGGC
TGCGGCATGTTTACCTTCCTGTCATCTGTCACTGCTGCTGTCAGTGGCCTCCTGGTGGGT
TATGAACTTGGGATCATCTCTGGGGCTCTTCTTCAGATCAAAACCTTATTAGCCCTGAGC
TGCCATGAGCAGGAAATGGTTGTGAGCTCCCTCGTCATTGGAGCCCTCCTTGCCTCACTC
ACCGGAGGGGTCCTGATAGACAGATATGGAAGAAGGACAGCAATCATCTTGTCATCCTGC
CTGCTTGGACTCGGAAGCTTAGTCTTGATCCTCAGTTTATCCTACACGGTTCTTATAGTG
NGACGCATTGCCATAGGGGTCTCCATCTCCCTCTCTTCCATTGCCACTTGTGTTTACATC
GCAGAGATTGCTCCTCAACACAGAAGAAGCCTNTCTTGTGTCACTGAATGAGCTGATGAT
TGTCATCGGCATTNCTTCTGCCTATATTTCAAATTACGCATTTGCCAATGTTTTCCATGG
CTGGAAGTACATGTTTTGGTCTTGTGATTCCCTTGGGAGTTTTGCAAGCAATTGCAATG

3' Read Nucleotide Sequence:

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>OriGene 3' read for NM_145176 unedited
GCTGTGGGGTTTTTATATCTCATTTATTAACATGAATTCATAAAGGGTATTTTGCATTAA
ATTATAGTTTATAGTTCATAAAATAAGCTCTATAATCTTTATACTTGTTGAATGTAACTA
GGAATTACCACTAAAATCCTAGCCAGGACCCTCTCCTAATCTAGATAGAATATATGGGCA
GTTGTCCACACTGTGTGTTCTGGTTCTTTTTTGCGTATGATCCAGTGCAAGTAGTGTCTT
GGTAGGCAGAAACTGTACCCTCATGTCCAGACCACTTGTGTGTCTGCATAATAAAGCTGC
GACTGGCCTCCATACATACATAGCTTAAGGCGGAGGTTGATGTCTTCACTAGGACATAGT
CTATTCAAAGGCTGCTCTGTGAAGAAGGTAGAAAGTATTAAACCAGCCAGTAACTTTTTT
TTTTTAACCTGATATCCTGCTCAGAAAAAGAGATCACTTAGGACCTTGTACCTCATCTAC
CTTTTGAGGTTCCTTCTGGGGAGGAGGGGGATTAAAGGCTGTCTTTATCATTTCAGAGTG
TCTCTTCAAAACCAGTTCCATGACACTGAAAAGAGAGCACAGGAGTCGCAACTATGCATT
GGTCCAAAGACACCCTCCTAAGTGTTCTGGCACTATCCACGTTCAGAAGGTGTTGAGGCC
ATTAGGTCTCTGGAGAAAGCTGCCTGGATTGGCCCCTACCACACAGCTTGTTACACTCCA
AGAGCTGCTCCTGNGGTTTTCTTTTTTGAGGCTGTTTTGGCACTAATTCTTCTTGGTGAT
GACTCATAAAACANATGTTGTTTTTCACATAGTTCACTTTTGCTAGCTCCATTGATATTT
GTTCCCAAGAGCATCCCTTTGTCTCAGGTTAAACATACCCACANAAAGCAGGGATGCTAG
ACTCATGATTGTTATATAAAGCAN
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Restriction Sites: NotI-NotI

ACCN: NM_145176

Insert Size: 2900 bp

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).

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_145176.1, NP_660159.1

RefSeq Size: 2649 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]