

Product datasheet for **SC321827**

DPAGT1 (NM_203316) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPAGT1 (NM_203316) Human Untagged Clone
Tag:	Tag Free
Symbol:	DPAGT1
Synonyms:	GPT, ALG7, DGPT, G1PT, UAGT, UGAT, DPAGT, CDG-lj, DPAGT2, D11S366
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_203316.1
 CCGGTGTCCCACGGCGGCTCAAGTCAGAGTTGCTGGGTTTTGCTCAGATTGGTGTGGGA
 AGAGCCTGCCTGTGGGGAGCGGCCACTCCATACTGCTGAGGCCTCAGGACTGCTGCTCAG
 CTTGCCGTTACCTGAAGAGGCGGCGGAGCCGGGCCCTGACCGGTCACCATGTGGGCT
 TCTCGGAATTGCCATGCCGTGCTGATCAATTTGATCGTCTCGTGTGGGATTTGTGG
 CCACAGTCACCCATCCCGGCTTCCGGGGCCACTTCATTGTCGCGCCTCTGTGGTC
 AGGACCTCAACAAAACCAGCCGACAGCAGATTTTGTGGCCTGATAGTGCCCTCTTGC
 CATCTGCTGCATGATCTTCTGGGCTTTGCGGATGATGTAATCTGCGCTGGCGCCA
 TAAGTGTGCTACCTACAGCTGCCTCACTACCTCCTCATGGTCTATTTACCAAACTT
 TGGCAACACGACCATTGTGGTGCCCAAGCCCTTCCGCCGATACTTGGCCTGCATCTGGA
 CTTGGGAATCCTGACTATGTCTACATGGGGCTGCTGGCAGTGTCTGTACCAATGCCAT
 CAATATCCTAGCAGGAATTAACGGCCTAGAGGCTGGCCAGTCACTAGTCAATTTCTGCTC
 CATCATTGTCTTCAACCTGGTAGAGTTGGAAGGTATTGTCGGGATGATCATGCTTTTTC
 CCTCTACTTCATGATACCCTTTTTTTTACCACCTTTGGGATTGCTCTACCACAATGGTA
 CCCATCACGGGTGTTTGTGGGAGATACCTTCTGTTACTTTGCTGGCATGACCTTTGCCGT
 GGTGGGCATCTTGGGACACTTCAGCAAGACCATGCTACTATTCTTCATGCCCCAGGTGTT
 CAACTTCTCTACTCACTGCCTCAGCTCCTGCATATCATCCCCTGCCCTCGCCACCCGAT
 ACCCAGACTCAATATCAAGACAGGCAAACCTGGAGATGAGCTATCCAAGTTCAAGACAA
 GAGCCTCTCTTTCTTGGGCACCTTTATTTTAAAGGTGGCAGAGAGCCTCCAGCTGGTGAC
 AGTACACCAGAGTGAGACTGAAGATGGTGAATTCAGTGAATGTAACAACATGACCCTCAT
 CAACTTGTCTACTAAAGTCTTGGGCCATACATGAGAGAAACCTCACATTGCTCCTGCT
 GCTGCTGCAGATCCTGGGCAGTCCGTCACCTTCTCCATTGATATCAGCTCGTTGAGT
 CTTCTATGATGTCTGAGTCCCTTGATCATTGTCCTTTACCTCACAGTCTCTAGGATTCCT
 GACTCAGGCTGACCTCTCTCTCTGGTCCAGACTGCCTCCTTGGCCAGGCCTCTCTCACT
 CTTCACTCCTCCAGATTTTGTCTCAGCATTTCCTTTCTCTGTGATCATTGGCATCC
 TGGCGTTTCTTGCCTCTACTGACTACTGATTGGATTTTACCTATGGCTTTCTGCAACT
 TGCTACTCTCTCCCTCTCCATCCCATCTTTGCAGCCTCATAGGGTGGGATACAGCAGCTT
 TTTTTGCAGTTATCCACACTCACATTTTCCAGAGTCTGACTCTCAAGGAACCACTGGTTTT
 TGGGATAGAACTTGGGCCAGGGCTAGGAACACAGGCTCCACGGTGACATGTCATTTGATT
 GTAATTAAGTGTCTGATTAGTAAGAACTAAGCAGGGGGCCACATGCTCTCAATGGAGA
 CAATAAAGTGTTGCTTTTTTCTTAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

Restriction Sites: Please inquire

ACCN: NM_203316

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.

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_203316.1](#), [NP_976061.1](#)

RefSeq Size: 2038 bp

RefSeq ORF: 906 bp

Locus ID: 1798

Cytogenetics: 11q23.3

Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

Gene Summary: The protein encoded by this gene is an enzyme that catalyzes the first step in the dolichol-linked oligosaccharide pathway for glycoprotein biosynthesis. This enzyme belongs to the glycosyltransferase family 4. This protein is an integral membrane protein of the endoplasmic reticulum. The congenital disorder of glycosylation type Ij is caused by mutation in the gene encoding this enzyme. [provided by RefSeq, Jul 2008]

Transcript Variant: This variant (2) lacks an in-frame segment, compared to variant 1. It causes translation initiation at a downstream ATG and an isoform (b) with a shorter N-terminus compared to isoform a.