

Product datasheet for **RC208407**

DPAGT1 (NM_203316) Human Tagged ORF Clone

Product data:

| | |
|---------------------------|---|
| Product Type: | Expression Plasmids |
| Product Name: | DPAGT1 (NM_203316) Human Tagged ORF Clone |
| Tag: | Myc-DDK |
| Symbol: | DPAGT1 |
| Synonyms: | GPT, ALG7, DGPT, G1PT, UAGT, UGAT, DPAGT, CDG-lj, DPAGT2, D11S366 |
| Mammalian Cell Selection: | Neomycin |
| Vector: | pCMV6-Entry (PS100001) |
| E. coli Selection: | Kanamycin (25 ug/mL) |
| ORF Nucleotide Sequence: | >RC208407 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGATCTTCTGGGCTTTGCGGATGATGTACTGAATCTGCGCTGGCGCCATAAGCTGCTGCTACCTACAG
CTGCCTCACTACCTCTCCTCATGGTCTATTTACCAACTTTGGCAACACGACCATTGTGGTGCCCAAGCC
CTTCCGCCGATACTTGGCCTGCATCTGGACTTGGGAATCCTGTACTATGTCTACATGGGGCTGCTGGCA
GTGTTCTGTACCAATGCCATCAATATCCTAGCAGGAATTAACGGCCTAGAGGCTGGCCAGTCACTAGTCA
TTTCTGCTCCATCATTGTCTTCAACCTGGTAGAGTTGGAAGGTGATTGTCGGGATGATCATGTCTTTTC
CCTCTACTTCATGATACCCTTTTTTTTACCACCTTTGGGATTGCTCTACCACAACCTGGTACCCATCACGG
GTGTTTGTGGGAGATACCTTCTGTTACTTTGCTGGCATGACCTTTGCCGTGGTGGGCATCTTGGGACACT
TCAGCAAGACCATGCTACTATTCTTTCATGCCCCAGGTGTTCAACTTCTCTACTCACTGCCTCAGCTCCT
GCATATCATCCCCTGCCCTCGCCACCGCATACCCAGACTCAATATCAAGACAGGCAAACCTGGAGATGAGC
TATTCGAAGTTCAAGACCAAGAGCCTCTCTTTCTTGGGCACCTTTATTTTAAAGGTGGCAGAGAGCCTCC
AGCTGGTGACAGTACACCAGAGTGAGACTGAAGATGGTGAATTCCTGAATGTAACAACATGACCCTCAT
CAACTTGTACTTAAAGTCCCTTGGGCCCATACATGAGAGAAACCTCACATTGCTCCTGCTGCTGCTGCAG
ATCCTGGGCAGTCCCGTCACCTTCTCCATTCGATATCAGCTCGTTCGACTCTTCTATGATGTC

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Protein Sequence: >RC208407 protein sequence
Red=Cloning site Green=Tags(s)

MIFLGFADDVLNLRWRHKLLLPTAASLPLLMVYFTNFGNTTIVVPKFRPILGLHLDLGILYVVMGLLA
 VFCTNAINILAGINGLEAGQSLVISASIVFNLVELEGDCRDDHVFSLYFMIPFFFTTLGLLYHNWYPSR
 VVGDTCYFAGMTFAVVGILGHFSKTMLLFFMPQVFNFLYSLPQLLHIIPCPRHRIPRLNIKTGKLEMS
 YSKFKTKSLSFLGTFILKVAESLQLVTVHQSETEDEGEFTECNMNTLINLLLVKLGPIHERNLTLLLLLLQ
 ILGSAVTFISIRYQLVRLFYDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Chromatograms: https://cdn.origene.com/chromatograms/mk6532_b04.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_203316

ORF Size: 903 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_203316.1](#), [NP_976061.1](#)

RefSeq Size: 2038 bp

RefSeq ORF: 905 bp

Locus ID: 1798

Cytogenetics: 11q23.3

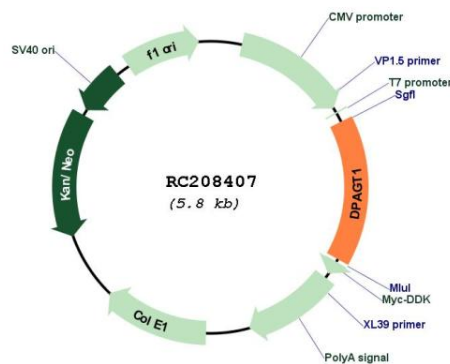
Protein Families: Transmembrane

Protein Pathways: Metabolic pathways, N-Glycan biosynthesis

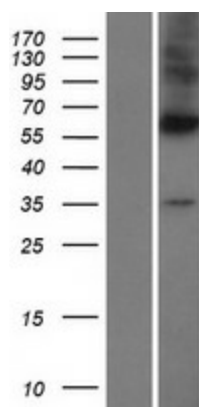
MW: 34.3 kDa

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]

Product images:



Circular map for RC208407



Western blot validation of overexpression lysate (Cat# [LY404394]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC208407 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).