

## Product datasheet for MR206451

### Dpagt1 (NM\_007875) Mouse Tagged ORF Clone

#### Product data:

|                           |                                                                   |
|---------------------------|-------------------------------------------------------------------|
| Product Type:             | Expression Plasmids                                               |
| Product Name:             | Dpagt1 (NM_007875) Mouse Tagged ORF Clone                         |
| Tag:                      | Myc-DDK                                                           |
| Symbol:                   | Dpagt1                                                            |
| Synonyms:                 | AU021132; Dpagt2; Gnpta; GPT                                      |
| Mammalian Cell Selection: | Neomycin                                                          |
| Vector:                   | pCMV6-Entry (PS100001)                                            |
| E. coli Selection:        | Kanamycin (25 ug/mL)                                              |
| ORF Nucleotide Sequence:  | >MR206451 ORF sequence<br>Red=Cloning site Blue=ORF Green=Tags(s) |

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**CGATCGCC**

ATGTGGGCCTTCCCGGAGTTGCCCTGCCGCTGCCGCTGCTGGTGAATTTGATCGGCTCGCTGTTGGGAT  
TCGTGGCTACAGTCACCCTCATCCCTGCCTCCGTAGCCACTTTATCGCCGCGCGCTCTGTGGCCAGGA  
CCTCAACAAGCTCAGCCAGCAGCAGATCCCAGAGTCCCAGGGAGTGATCAGCGGTGCTGTTTTCTTATC  
ATCCTCTTCTGCTTCATCCCTTCCCTTCCTGAAGTCTTCGTGGAGGAGCAGTGAAGGCATTCCTCC  
ACCATGAATTTGTGGCCCTAATAGGTGCCCTCCTTGCCATCTGCTGCATGATCTTCTGGGGTTTGCTGA  
TGATGTCCTCAATCTCCGCTGGCGCCACAAGCTGCTGCTGCCACAGCTGCCTCACTACCTCCTCATG  
GTCTACTTCACAACTTTGGCAATAACAACCATCGTGGTGCCCAAGCCCTCCGCTGGATTCTGGGCTGC  
ATTTGGACTTGGGGATCCTGACTACGTCTACATGGGGCTGCTTGCAGTGTCTGTACCAATGCCATCAA  
CATCCTGGCGGGCATTAAATGGCCTAGAGGCCGGTCAGTCACTAGTCATCTCTGCTTCTATCATTGTCTTC  
AACCTGGTGGAACTGGAAGGTGATTATCGAGATGATCATATCTTTCCCTTACTTCATGATACCATTTT  
TCTTTACCACCTTGGGACTGCTTACCACAAGTGGTACCCGTCCCGCTGTTTGTGGGAGACACCTTCTG  
TTACTTTGCGGGCATGACTTTTGGCGTGGTGGGATCTTGGGACACTTCAGCAAGACCATGCTGCTCTTC  
TTTATGCCACAAGTATTCAATTTCTCTACTCACTGCCTCAGCTCTTCCATATCATCCCTGCCCTCGAC  
ACCGGATGCCCAGACTCAACGCAAAGACAGGCAAAGTGGAAATGAGCTATTCCAAGTTCAAGACCAAGAA  
CCTCTCTTTCTGGGCACCTTTATTTTAAAGGTAGCAGAGAACCCTCCGGTATAGTGACAGTTCACCAAGGT  
GAGAGTGAGGACGGTGCCTTCACTGAGTGAACAACATGACCCTCATCACTTGTACTTAAAGTCTTTG  
GGCCTATACATGAGAGAAACCTCACCTGCTCCTGCTCCTGCAGGTCTAAGCAGCGCCGCCACCTT  
CTCCATTCGTTACCAACTCGTCCGACTCTTCTATGATGTC

**ACGCGT**ACGCGGCCGCTCGAGCAGAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >MR206451 protein sequence  
Red=Cloning site Green=Tags(s)

MWAFPELPLPLLLVNLIGSLLGFVATVTLIPAFRSHFIAARLCGQDLNKL SQQQIPESQGVISGAVFLI  
 ILFCFIPFPFLNCFVEEQKAFPHHEFVALIGALLAICCMIFLGFADDVNLNRWRHKL LPTAASLPLLM  
 VYFTNFGNTTIVVPKFRWILGLHLDLGLIYVYVMGLLAVFCTNAINILAGINGLEAGQSLVISASIIVF  
 NLVELEGDYRDDHIFSLYFMIPFFFTLLGLLYHNWYPSRVFVGDTCYFAGMTFAVVGILGHFSKTMLLF  
 FMPQVFNFLYSLPQLFHIIPCRHRMPRLNAKTGKLEMSYSKFKTKNLSFLGTFILKVAENLRVTVHQG  
 ESEDGAFTECNMNTLINLLLKVFGPIHERNLTLLLLLLQVLSSAATFSIRYQLVRLFYDV

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**

Cloning sites used for ORF Shuttling:



\* The last codon before the Stop codon of the ORF

**ACCN:** NM\_007875

**ORF Size:** 1233 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\\_007875.3](#)

**RefSeq Size:** 1920 bp

**RefSeq ORF:** 1233 bp

**Locus ID:** 13478

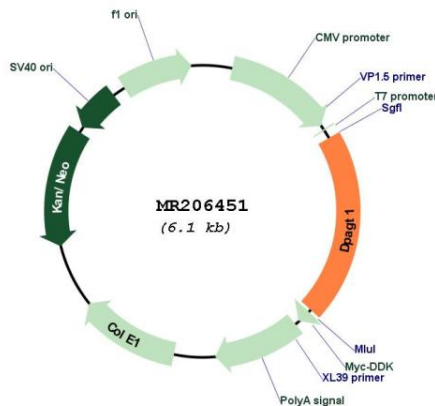
**UniProt ID:** [P42867](#)

**Cytogenetics:** 9 24.84 cM

**MW:** 46.4 kDa

**Gene Summary:** Catalyzes the initial step of dolichol-linked oligosaccharide biosynthesis in N-linked protein glycosylation pathway: transfers GlcNAc-1-P from UDP-GlcNAc onto the carrier lipid dolichyl phosphate (P-dolichol), yielding GlcNAc-P-P-dolichol.[UniProtKB/Swiss-Prot Function]

**Product images:**



Circular map for MR206451