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Product datasheet for RG201787

DPAGT1 (NM_001382) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	DPAGT1 (NM_001382) Human Tagged ORF Clone
Tag:	TurboGFP
Symbol:	DPAGT1
Synonyms:	ALG7; CDG-Ij; CDG1J; CMS13; CMSTA2; D11S366; DGPT; DPAGT; DPAGT2; G1PT; GPT; UAGT; UGAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-AC-GFP (PS100010)
E. coli Selection:	Ampicillin (100 ug/mL)

View online »

ORF Nucleotide Sequence:

>RG201787 representing NM_001382
Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCCGCGATCGCC

ATGTGGGCCTTCTCGGAATTGCCCATGCCGCTGCTGATCAATTTGATCGTCTCGCTGCTGGGATTTGTGG
CCACAGTCACCCTCATCCCGGCCTTCCGGGGCCACTTCATTGCTGCGCGCCTCTGTGGTCAGGACCTCAA
CAAAACCAGCCGACAGCAGATCCCAGAATCCCAGGGAGTGATCAGCGGTGCTGTTTTCCTTATCATCCTC
TTCTGCTTCATCCCTTTCCCCTTCCTGAACTGCTTTGTGAAGGAGCAGTGTAAGGCATTCCCCCACCATG
AATTTGTGGCCCTGATAGGTGCCCTCCTTGCCATCTGCTGCATGATCTTCCTGGGCTTTGCGGATGATGT
ACTGAATCTGCGCTGGCGCCATAAGCTGCTGCTACCTACAGCTGCCTCACTACCTCTCCTCATGGTCTAT
TTCACCAACTTTGGCAACACGACCATTGTGGTGCCCAAGCCCTTCCGCCCGATACTTGGCCTGCATCTGG
ACTTGGGAATCCTGTACTATGTCTACATGGGGCTGCTGGCAGTGTTCTGTACCAATGCCATCAATATCCT
AGCAGGAATTAACGGCCTAGAGGCTGGCCAGTCACTAGTCATTTCTGCTTCCATCATTGTCTTCAACCTG
GTAGAGTTGGAAGGTGATTGTCGGGATGATCATGTCTTTTCCCTCTACTTCATGATACCCTTTTTTTTCA
CCACTTTGGGATTGCTCTACCACAACTGGTACCCATCACGGGTGTTTGTGGGAGATACCTTCTGTTACTT
TGCTGGCATGACCTTTGCCGTGGTGGGCATCTTGGGACACTTCAGCAAGACCATGCTACTATTCTTCATG
CCCCAGGTGTTCAACTTCCTCTACTCACTGCCTCAGCTCCTGCATATCATCCCCTGCCCTCGCCACCGCA
TACCCAGACTCAATATCAAGACAGGCAAACTGGAGATGAGCTATTCCAAGTTCAAGACCAAGAGCCTCTC
TTTCTTGGGCACCTTTATTTTAAAGGTGGCAGAGAGCCTCCAGCTGGTGACAGTACACCAGAGTGAGACT
GAAGATGGTGAATTCACTGAATGTAACAACATGACCCTCATCAACTTGCTACTTAAAGTCCTTGGGCCCA
TACATGAGAGAAACCTCACATTGCTCCTGCTGCTGCTGCAGATCCTGGGCAGTGCCATCACCTTCTCCAT
TCGATATCAGCTCGTTCGACTCTTCTATGATGTC

ACGCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA

Protein Sequence:

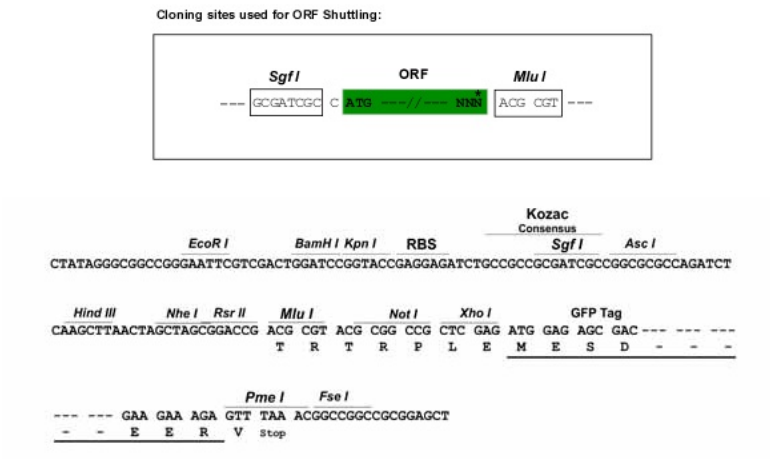
>RG201787 representing NM_001382
Red=Cloning site Green=Tags(s)

MWAFSELPMPLLINLIVSLLGFVATVTLIPAFRGHFIAARLCGQDLNKTSRQQIPESQGVISGAVFLIIL
FCFIPFPFLNCFVKEQCKAFPHHEFVALIGALLAICCMIFLGFADDVLNLRWRHKLLLPTAASLPLLMVY
FTNFGNTTIVVPKPFRPILGLHLDLGILYYVYMGLLAVFCTNAINILAGINGLEAGQSLVISASIIVFNL
VELEGDCRDDHVFSLYFMIPFFFTTLGLLYHNWYPSRVFVGDTFCYFAGMTFAVVGILGHFSKTMLLFFM
PQVFNFLYSLPQLLHIIPCPRHRIPRLNIKTGKLEMSYSKFKTKSLSFLGTFILKVAESLQLVTVHQSET
EDGEFTECNNMTLINLLLKVLGPIHERNLTLLLLLLQILGSAITFSIRYQLVRLFYDV

TRTRPLE - GFP Tag - V

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN:	NM_001382
ORF Size:	1224 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_001382.4
RefSeq Size:	2159 bp
RefSeq ORF:	1227 bp
Locus ID:	1798
UniProt ID:	Q9H3H5
Cytogenetics:	11q23.3

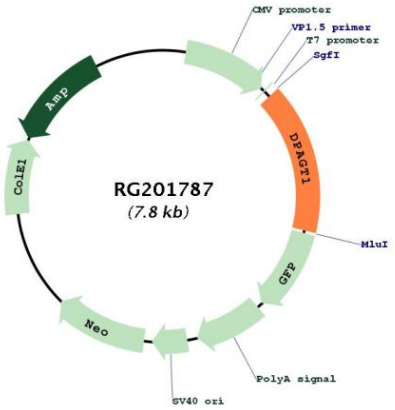
Domains: Glycos_transf_4

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]

Product images:



Circular map for RG201787