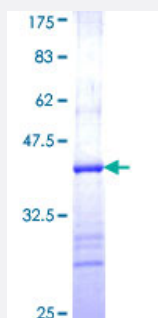


# FPGT (Human) Recombinant Protein (Q01)

Catalog # H00008790-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human FPGT partial ORF ( NP_003829, 1 a.a. - 109 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	MAAARDPPEVSLREATQQRKLRRFSELRGKLVARGEFDIVAITAADEKQELAYNQQLSEKLKRKE LPLGVQYHVFVDPAGAKIGNGGSTLCALQCLEKLYGDKWNSFTI
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	37.73
<b>Interspecies Antigen Sequence</b>	Mouse (75); Rat (72)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	Best use within three months from the date of receipt of this protein.

## Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

## Gene Info — FPGT

Entrez GeneID [8790](#)

GeneBank Accession# [NM\\_003838](#)

Protein Accession# [NP\\_003829](#)

Gene Name FPGT

Gene Alias GFPP

Gene Description fucose-1-phosphate guanylyltransferase

Omim ID [603609](#)

Gene Ontology [Hyperlink](#)

**Gene Summary**

L-fucose is a key sugar in glycoproteins and other complex carbohydrates since it may be involved in many of the functional roles of these macromolecules, such as in cell-cell recognition. The fucosyl donor for these fucosylated oligosaccharides is GDP-beta-L-fucose. There are two alternate pathways for the biosynthesis of GDP-fucose; the major pathway converts GDP-alpha-D-mannose to GDP-beta-L-fucose. The protein encoded by this gene participates in an alternate pathway that is present in certain mammalian tissues, such as liver and kidney, and appears to function as a salvage pathway to reutilize L-fucose arising from the turnover of glycoproteins and glycolipids. This pathway involves the phosphorylation of L-fucose to form beta-L-fucose-1-phosphate, and then condensation of the beta-L-fucose-1-phosphate with GTP by fucose-1-phosphate guanylyltransferase to form GDP-beta-L-fucose. [provided by RefSeq]

**Other Designations** GDP-beta-L-fucose pyrophosphorylase[OTTHUMP00000011173]fucose-1-phosphate guanylyltransferase

## Pathway

- [Amino sugar and nucleotide sugar metabolism](#)
- [Fructose and mannose metabolism](#)
- [Metabolic pathways](#)