

# Recombinant Full Length Human UGP2 Protein, C-Flag-tagged

**Cat. No.** UGP2-788HFL    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Full Length Human UGP2 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | The enzyme encoded by this gene is an important intermediary in mammalian carbohydrate interconversions. It transfers a glucose moiety from glucose-1-phosphate to MgUTP and forms UDP-glucose and MgPPi. In liver and muscle tissue, UDP-glucose is a direct precursor of glycogen; in lactating mammary gland it is converted to UDP-galactose which is then converted to lactose. The eukaryotic enzyme has no significant sequence similarity to the prokaryotic enzyme. Two transcript variants encoding different isoforms have been found for this gene. |
| <b>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Molecular Mass</b>   | 56.8 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | MSRFVQDLSKAMSQDGASQFQEVIRQELELSVKKELEKILTTASSHEFEHTKKDLDG<br>FRKLFHRFLQKEG PSVDWGGKIQRPPEDSIQPYEKIKARGLPDNISSVLNKLVVVKLN<br>GGLGTSMGCKGPKSLIGVRNENTFLD LTVQQIEHLNKTNTDVPLVLMNSFNTDED<br>TKKILQKYNHCRVKIYTFNQSRYPINKESLLPVAKDVSY SGENTEAWYPPGHGDIY<br>ASFYNSGLLDTFIGEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFVM EVTNK<br>TRADVKGGTLTQYEGKLRLVEIAQVPAHVDEFKSVSKFKIFNTNNLWISLAAVKRLQ                                                                                                                                                                                   |

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EQNAIDM EIIVNAKTLDGGLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLL  
 LVMSNLYSLNAGSLTMSE KREFPTVPLVKLGSSFTKVQDYLRREFESIPDMLDHLT  
 VSGDVTFGKNVSLKGTVIIIANHGDRIDIPP  
 GAVLENKIVSGNLRILDHTRTRPLEQKLISEEDLAANDILDYKDDDDKV

|                         |                                                                                                                                                                |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>           | > 80% as determined by SDS-PAGE and Coomassie blue staining.                                                                                                   |
| <b>Stability</b>        | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.                  |
| <b>Storage</b>          | Store at -80 centigrade.                                                                                                                                       |
| <b>Concentration</b>    | >50 ug/mL as determined by microplate BCA method.                                                                                                              |
| <b>Preparation</b>      | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.                                               |
| <b>Protein Families</b> | Druggable Genome                                                                                                                                               |
| <b>Protein Pathways</b> | Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose metabolism |
| <b>Full Length</b>      | Full L.                                                                                                                                                        |

## GENE INFORMATION

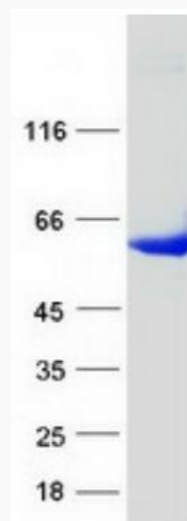
|                        |                                                               |
|------------------------|---------------------------------------------------------------|
| <b>Gene Name</b>       | UGP2 UDP-glucose pyrophosphorylase 2 [ Homo sapiens (human) ] |
| <b>Official Symbol</b> | UGP2                                                          |

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|-----------------------|-----------------------------------------------------------------------|
| <b>Synonyms</b>       | UDPG; UGP1; DEE83; UDPGP; UGPP1; UGPP2; EIEE83; SVUGP2; UDPGP2; pH379 |
| <b>Gene ID</b>        | 7360                                                                  |
| <b>mRNA Refseq</b>    | NM_006759.4                                                           |
| <b>Protein Refseq</b> | NP_006750.3                                                           |
| <b>MIM</b>            | 191760                                                                |
| <b>UniProt ID</b>     | Q16851                                                                |



Coomassie blue staining of purified UGP2 protein.

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