

## Product datasheet for PH308376

### UGP2 (NM\_006759) Human Mass Spec Standard

#### Product data:

|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Mass Spec Standards  |
| Description:                          | UGP2 MS Standard C13 and N15-labeled recombinant protein (NP_006750) |
| Species:                              | Human  |
| Expression Host:                      | HEK293   |
| Expression cDNA Clone or AA Sequence: | RC208376   |
| Predicted MW:                         | 56.9 kDa   |
| Protein Sequence:                     | >RC208376 protein sequence<br>Red=Cloning site Green=Tags(s)         |

MSRFVQDL SKAMSQDGASQFQEVIRQELELSVKKELEKILTTASSHEFEHTKKDL DGFRKLFHRFLQKEG  
PSVDWGKIQRPPEDSIQPYEKIKARGLPDNISSVLNKL VVVKLNGGLGTSMGCKGPKSLIGVRNENTFLD  
LTVQQIEHLNKTYNTDVPLVLMNSFNTDEDTKKILQKYNHCRVKIYTFNQSRYPRIKESLLPVAKDVS  
SGENTEAWYPPGHGDIYASFYNSGLLDTF IGEGKEYIFVSNIDNLGATVDLYILNHLMPNGKRCEFVM  
EVTNKTRADVKGGLTQYEGKLRLEIAQVPKAHVDEFKSVSKFKIFNTNNLWISLAAVKRLQEQNAIDM  
EIIIVNAKTL DGGLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLLL VMSNLYSLNAGSLTMSE  
KREFPTVPLVKLGSSFTKVQDYLRRFESIPDMLELDHL TVSGDVTFGKNVSLKGTVIIIANHGDRIDIPP  
GAVLENKIVSGNLRILDH

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

|                  |  |
|------------------|--|
| Tag:             | C-Myc/DDK  |
| Purity:          | > 80% as determined by SDS-PAGE and Coomassie blue staining                                |
| Concentration:   | >0.05 µg/µL as determined by microplate BCA method   |
| Labeling Method: | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine                       |
| Buffer:          | 25 mM Tris-HCl, 100 mM glycine, pH 7.3   |
| Storage:         | Store at -80°C. Avoid repeated freeze-thaw cycles.   |
| Stability:       | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| RefSeq:          | <a href="#">NP_006750</a>  |
| RefSeq Size:     | 2185   |
| RefSeq ORF:      | 1524   |



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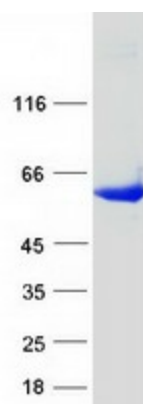
**Synonyms:** DEE83; EIEE83; pH379; SVUGP2; UDPG; UDPGP; UDPGP2; UGP1; UGPP1; UGPP2  
**Locus ID:** 7360  
**UniProt ID:** [Q16851](#)  
**Cytogenetics:** 2p15

**Summary:** 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. [provided by RefSeq, Jul 2008]

**Protein Families:** Druggable Genome

**Protein Pathways:** Amino sugar and nucleotide sugar metabolism, Galactose metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Starch and sucrose metabolism

### Product images:



Coomassie blue staining of purified UGP2 protein (Cat# [TP308376]). The protein was produced from HEK293T cells transfected with UGP2 cDNA clone (Cat# [RC208376]) using MegaTran 2.0 (Cat# [TT210002]).