

Product datasheet for **TP308376**

UGP2 (NM_006759) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human UDP-glucose pyrophosphorylase 2 (UGP2), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC208376 protein sequence Red =Cloning site Green =Tags(s)

MSRFVQDLSKAMSQDGASQFQEVIRQELELSVKKELEKILTTASSHEFEHTKKDLDGFRKLFHRFLQEKG
PSVDWGKIQRPPEDSIQPYEKIKARGLPDNISSVLNKLWVKLNGLGTSMGCKGPKSLIGVRNENTFLD
LTVQQIEHLNKTYNTDVPLVLMNSFNTDEDTKKILQKYNHCRVKIYTFNQSRYPINKESLLPVAKDVS
SGENTEAWYPPGHGDIYASFYNSGLLDTFIGEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFM
EVTNKTRADVKGGLTQYEGKLRLEIAQVPKAHVDEFKSVSKFKIFNTNNLWISLAAVKRLQEONAIM
EIVNAKTLDGGLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLLLVMNSLYSLNAGSLTMSE
KREFPTVPLVVLKLGSSFTKVQDYLRRFESIPDMLELDHDTVSGDVTFGKNVSLKGTVIIIANHGDRIDIP
GAVLENKIVSGNLRILDH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

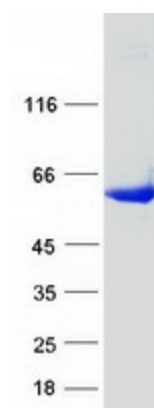
Tag:	C-Myc/DDK
Predicted MW:	56.8 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<u>NP_006750</u>
Locus ID:	7360
UniProt ID:	<u>Q16851</u>
RefSeq Size:	2185
Cytogenetics:	2p15
RefSeq ORF:	1524
Synonyms:	DEE83; EIEE83; pHC379; SVUGP2; UDPG; UDPGP; UDPGP2; UGP1; UGPP1; UGPP2
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]).