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Product datasheet for PH300246

UGP2 (NM_001001521) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	UGP2 MS Standard C13 and N15-labeled recombinant protein (NP_001001521)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC200246
Predicted MW:	55.7 kDa
Protein Sequence:	>RC200246 protein sequence Red=Cloning site Green=Tags(s) MSQDGASQFQEVIRQELELSVKKELEKILTTASSHEFEHTKKDLDGFRKLFHRFLQEKGPSVDWGKIQRP PEDSIQPYEKIKARGLPDNISSVLNKLVVVKLNGGLGTSMGCKGPKSLIGVRNENTFLDLTVQQIEHLNK TYNTDVPLVLMNSFNTDEDTKKILQKYNHCRVKIYTFNQSRYPRINKESLLPVAKDVSYSGENTEAWYPP GHGDIYASFYNSGLLDTFIGEGKEYIFVSNIDNLGATVDLYILNHLMNPPNGKRCEFVMEVTNKTRADVK GGTLTQYEGKLRLVEIAQVPKAHVDEFKSVSKFKIFNTNNLWISLAAVKRLQEQNAIDMEIIVNAKTLDG GLNVIQLETAVGAAIKSFENSLGINVPRSRFLPVKTTSDLLLVMSNLYSLNAGSLTMSEKREFPTVPLVK LGSSFTKVQDYLRRFESIPDMLELDHLTVSGDVTFGKNVSLKGTVIIIANHGDRIDIPPGAVLENKIVSG NLRILDH TRTRPLEQKLISEEDLAANDILDYKDDDDKV
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:	NP_001001521
RefSeq Size:	2129
RefSeq ORF:	1491

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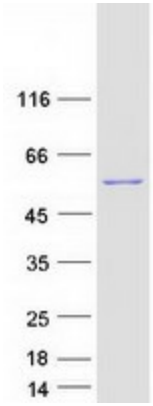
Synonyms:	DEE83; EIEE83; pHC379; SVUGP2; UDPG; UDPGP; UDPGP2; UGP1; UGPP1; UGPP2
Locus ID:	7360
UniProt ID:	Q16851, A0A140VKE1
Cytogenetics:	2p15
Summary:	The enzyme encoded by this gene is an important intermediary in mammalian carbohydrate interconversions. It transfers a glucose moiety from glucose-1-phosphate 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# [TP300246]). The protein was produced from HEK293T cells transfected with UGP2 cDNA clone (Cat# [RC200246]) using MegaTran 2.0 (Cat# [TT210002]).