

Recombinant Human UGP2

Cat. No. UGP2-31662TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human UGP2 produced in <i>Saccharomyces cerevisiae</i> . Protein is tagged with 26 kDa proprietary tag.
Species	Human
Description	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.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MSRFVQDLSK AMSQDGASQF QEVIRQELEL SVKKELEKIL TTASSHEFEH TKKDLDGFRK LFHRFLQKEG PSVDWGGKIQR PPEDSIQPYE KIKARGLPDN

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ISSVLNKLVV VKLNGGLGTS MGCKGPKSLI GVRNENTFLD LTVQQIEHLN
 KTYNTDVPLV LMNSFNTDED TKKILQKYNH CRVKIYTFNQ SRYPRINKES
 LRPVAKDVSF SGENTEAWYP PGHGDIYASF YNSGLLDTFI GEGKEYIFVS
 NIDNLGATVD LYILNHLINP PNGKRCEFVM EVTNKTRADV KGGTLTQYEG
 KLRLVEIAQV PKAHVDEFKS VSKFKIFNTN NLWISLAARK RLQEQNAIDM
 EIIVNAKTLD GGLNVIQLET AVGAALKSFE NSLGINVPRS RFLPVKTTSD
 LLLVMSNLYS LNAGSLTMSE KREFPTVPLV KLGSSFTKVQ DYLRREFESIP
 DMLELDHLTV SGDVTFGKNV SLKGTVIIIA NHGDRIDIPP GAVLENKIVS GNLRLDHD

Full Length Full L.

GENE INFORMATION

Gene Name UGP2 UDP-glucose pyrophosphorylase 2 [Homo sapiens]

Official Symbol UGP2

Synonyms UGP2; UDP-glucose pyrophosphorylase 2; UTP--glucose-1-phosphate uridylyltransferase;

Gene ID 7360

mRNA Refseq NM_001001521

Protein Refseq NP_001001521

MIM 191760

Uniprot ID Q16851

Chromosome 2p14-p13

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Location	
Pathway	Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Ascorbate biosynthesis, animals, glucose-1P => ascorbate, organism-specific biosystem; Ascorbate biosynthesis, animals, glucose-1P =>
Function	UTP:glucose-1-phosphate uridylyltransferase activity; UTP:glucose-1-phosphate uridylyltransferase activity; glucose binding; metal ion binding; nucleotidyltransferase activity;

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