



# Recombinant Human UTP--glucose-1-phosphate uridylyltransferase (UGP2)

<b>Product Code</b>	CSB-YP620986HU
<b>Abbreviation</b>	UGP2
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q16851
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MSRFVQDLSK AMSQDGASQF QEVIRQELEL SVKKELEKIL TTASSHEFEH TKKDLDGFRK LFHRFLQEKG PSVDWGKIQR PPEDSIQPYE KIKARGLPDN ISSVLNKLVV VKLNGGLGTS MGCKGPKSLI GVRNENTFLD LTVQQIEHLN KTYNTDVPLV LMNSFNTEDED TKKILQKYNH CRVKIYTFNQ SRYPRINKES LLPVAKDVS Y SGENTEAWYP PGHGDIYASF YNSGLLDTFI GEGKEYIFVS NIDNLGATVD LYILNHLMNP PNGKRCEFVM EVTNKTRADV KGGTLTQYEG KLRLVEIAQV PKAHVDEFKS VSKFKIFNTN NLWISLAAVK RLQEQNAIDM EIIVNAKTLG GGLNVIQLET AVGAAIKSFE NSLGINVPRS RFLPVKTTSD LLLVMSNLYS LNAGSLTMSE KREFPTVPLV KLGSSFTKVQ DYLRRFESIP DMLELDHLTV SGDVTFGKNV SLKGTVIII A NHGDRIDIPP GAVLENKIVS GNLRILDH
<b>Source</b>	Yeast
<b>Target Names</b>	UGP2
<b>Protein Names</b>	Recommended name: UTP--glucose-1-phosphate uridylyltransferase EC= 2.7.7.9 Alternative name(s): UDP-glucose pyrophosphorylase Short name= UDPGP Short name= UGPase
<b>Expression Region</b>	1-508
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</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.

---

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

---

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.