

# Recombinant Full Length Human GYS2 Protein, GST-tagged

Cat. No. GYS2-3384HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human GYS2 full-length ORF ( ADR83307.1, 1 a.a. - 703 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	703 amino acids
<b>Description</b>	The protein encoded by this gene, liver glycogen synthase, catalyzes the rate-limiting step in the synthesis of glycogen - the transfer of a glucose molecule from UDP-glucose to a terminal branch of the glycogen molecule. Mutations in this gene cause glycogen storage disease type 0 (GSD-0) - a rare type of early childhood fasting hypoglycemia with decreased liver glycogen content. [provided by RefSeq, Dec 2009]
<b>Molecular Mass</b>	77.4 kDa
<b>AA Sequence</b>	MLRGRSISVTSLGGLPQWEVEELPVEELLLFEVAWEVTNKVGGIYTVIQTKAKTTAD EWGENYFLIGPYFEHNMKTQVEQCEPVNDAVRRRAVDAMNKHGQCQVHFGRWLIEGS PYVVLFDIGYSAWNLDRWKGDLWEACSVGIPYHDREANDMLIFGSLTAWFLKEVTD HADGKYVVAQFHEWQAGIGLILSRARKLPIATIFTTHATLLGRYLCAANIDFYNHLDKF NIDKEAGERQIYHRYCMERASVHCAHVFTTVSEITAIEAEHMLKRKPDVVTPNGLNV KKFSAVHEFQNLHAMYKARIQDFVRGHFYGHLDLDFLEKTLFLFIAGRYEFSNKGADIF LESLSRLNFLLRMHKSDITVVVFFIMPAKTNNFNVETLKGQAVRKQLWDVAHSVKEK FGKKLYDALLRGEIPDLNDILDRDDLTIMKRAIFSTQRQSLPPVTTHNMIDDSTDPILST

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IRRIGLFNNRTDRVKVILHPEFLSSTSPLLPMDYEEFVRGCHLGVFSPSYYPWGYTPA  
 ECTVMGIPSVTTNLSGFGCFMQEHVADPTAYGIYIVDRRFRSPDDSCNQLTKFLYGF  
 CKQSRQRRIQRNRTERLSDLLDWRYLGRIYQHARHLTLRAFPDKFHVELTSPPTT  
 EGFKYPRPSSVPPSPSGSQASSPQSSDVEDEVEDERYDEEEEAERDRLNIKSPFSL  
 SHVPHGKKKLHGEYKN

**Applications**  
 Enzyme-linked Immunoabsorbent Assay  
 Western Blot (Recombinant protein)  
 Antibody Production  
 Protein Array

**Notes**  
 Best use within three months from the date of receipt of this protein.

**Storage**  
 Store at -8 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**  
 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## GENE INFORMATION

**Gene Name** [GYS2 glycogen synthase 2 \(liver\) \[ Homo sapiens \]](#)

**Official Symbol** [GYS2](#)

**Synonyms** GYS2; glycogen synthase 2 (liver); glycogen [starch] synthase, liver;

**Gene ID** [2998](#)

**mRNA Refseq** [NM\\_021957](#)

**Protein Refseq** [NP\\_068776](#)

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<b>MIM</b>	138571
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<b>UniProt ID</b>	P54840
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