

# Datasheet for ABIN3126905 Glycogen Synthase 2 Protein (AA 1-704) (Strep Tag)



Overview

Quantity:	250 µg
Target:	Glycogen Synthase 2 (GYS2)
Protein Characteristics:	AA 1-704
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Glycogen Synthase 2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

## Product Details

Brand:	AliCE®
Sequence:	MLRGRSLSVT SLGGLPVWEA ERLPVEDLLL FEVSWEVTNK VGGICTVIQT KAKTTADEWG
	ENYFLIGPYF EHNMKTQVEQ CEPTNDAVRK AVDAMNKHGC QVHFGRWLIE GSPYVVLFDI
	SSSAWNLDRW KGDFWEACGV GIPHHDREAN DMLIFGSLTA WFLKEVTDHA DGKHVIAQFH
	EWQAGTGLIL SRARKLPIAT VFTTHATLLG RYLCAANIDF YNQLDKFDID KEAGERQIYH
	RYCMERASVH CAHVFTTVSE ITAIEAEHML KRKPDVVTPN GLNVKKFSAV HEFQNLHAMY
	KARIQDFVRG HFYGHLDFDL EKTLFLFIAG RYEFSNKGAD IFLESLSRLN FLLRMHKSNV
	TVVVFFIMPA KTNNFNVETL KGQAVRKQLW DTVHCLKEKF GKKLYDGLLR GEIPDMNSIL
	DRDDLTIMKR AIFSTQRQSL PPVTTHNMID DSTDPILSTI RRIGLFNNRA DRVKVILHPE
	FLSSTSPLLP MDYEEFVRGC HLGVFPSYYE PWGYTPAECT VMGIPSVTTN LSGFGCFVQE
	HVADPTAYGI YIVDRRFRSP DDSCNQLTQF LYGFCKQSRR QRIIQRNRTE RLSDLLDWRY
	LGRYYQHARH LTLSRAFPDK FHLEPTSPPT TDGFKYPRPS SVPPSPSGSQ ASSPQCSDAE

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#### DEEDEDERYD EEEEAERDRL NIKSPFSLNH FPKGKKKLHG EYKN

Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.

Characteristics: Key Benefits:

- Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

#### Expression System:

- ALICE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require posttranslational modifications.
- During lysate production, the cell wall and other cellular components that are not required for
  protein production are removed, leaving only the protein production machinery and the
  mitochondria to drive the reaction. During our lysate completion steps, the additional
  components needed for protein production (amino acids, cofactors, etc.) are added to
  produce something that functions like a cell, but without the constraints of a living system all that's needed is the DNA that codes for the desired protein!

#### Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

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### Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

# Target Details

Target:	Glycogen Synthase 2 (GYS2)
Alternative Name:	Gys2 (GYS2 Products)
Background:	Glycogen [starch] synthase, liver (EC 2.4.1.11) (Glycogen synthase 2),FUNCTION: Glycogen synthase participates in the glycogen biosynthetic process along with glycogenin and glycogen branching enzyme. Extends the primer composed of a few glucose units formed by glycogenin by adding new glucose units to it. In this context, glycogen synthase transfers the glycosyl residue from UDP-Glc to the non-reducing end of alpha-1,4-glucan. {ECO:0000269 PubMed:24982189}.
Molecular Weight:	80.9 kDa
UniProt:	Q8VCB3
Pathways:	AMPK Signaling, Cellular Glucan Metabolic Process
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a

Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from
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	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our lysate completion steps, the additional
	components needed for protein production (amino acids, cofactors, etc.) are added to produce
	something that functions like a cell, but without the constraints of a living system - all that's
	needed is the DNA that codes for the desired protein!

Restrictions:

For Research Use only

guarantee though.

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### Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months