

## Datasheet for ABIN3080629

# GUCY1A2 Protein (AA 1-732) (Strep Tag)



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## Overview

Quantity:	250 μg
Target:	GUCY1A2
Protein Characteristics:	AA 1-732
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GUCY1A2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Brand:	AliCE®
Sequence:	MSRRKISSES FSSLGSDYLE TSPEEEGECP LSRLCWNGSR SPPGPLEPSP AAAAAAAAAAAA
	PTPAASAAAA AATAGARRVQ RRRRVNLDSL GESISRLTAP SPQTIQQTLK RTLQYYEHQV
	IGYRDAEKNF HNISNRCSYA DHSNKEEIED VSGILQCTAN ILGLKFEEIQ KRFGEEFFNI
	CFHENERVLR AVGGTLQDFF NGFDALLEHI RTSFGKQATL ESPSFLCKEL PEGTLMLHYF
	HPHHIVGFAM LGMIKAAGKK IYRLDVEVEQ VANEKLCSDV SNPGNCSCLT FLIKECENTN
	IMKNLPQGTS QVPADLRISI NTFCRAFPFH LMFDPSMSVL QLGEGLRKQL RCDTHKVLKF
	EDCFEIVSPK VNATFERVLL RLSTPFVIRT KPEASGSENK DKVMEVKGQM IHVPESNSIL
	FLGSPCVDKL DELMGRGLHL SDIPIHDATR DVILVGEQAK AQDGLKKRMD KLKATLERTH
	QALEEEKKKT VDLLYSIFPG DVAQQLWQGQ QVQARKFDDV TMLFSDIVGF TAICAQCTPM
	QVISMLNELY TRFDHQCGFL DIYKVETIGD AYCVAAGLHR KSLCHAKPIA LMALKMMELS
	EEVLTPDGRP IQMRIGIHSG SVLAGVVGVR MPRYCLFGNN VTLASKFESG SHPRRINVSP

TTYQLLKREE SFTFIPRSRE ELPDNFPKEI PGICYFLEVR TGPKPPKPSL SSSRIKKVSY NIGTMFLRET SL

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®).

Product Details	
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	GUCY1A2
Alternative Name:	GUCY1A2 (GUCY1A2 Products)
Background:	Guanylate cyclase soluble subunit alpha-2 (GCS-alpha-2) (EC 4.6.1.2),FUNCTION: Has guanylyl cyclase on binding to the beta-1 subunit., FUNCTION: Isoform 2 acts as a negative regulator of guanylyl cyclase activity as it forms non-functional heterodimers with the beta subunits.
Molecular Weight:	81.8 kDa
UniProt:	P33402
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 guarantee though.
Comment:	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 post-translational 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
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

Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months