

# Datasheet for ABIN3109977 GPR39 Protein (AA 1-453) (Strep Tag)



Overview

Quantity:	250 µg
Target:	GPR39
Protein Characteristics:	AA 1-453
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR39 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

# Product Details

Brand:	AliCE®
Sequence:	MASPSLPGSD CSQIIDHSHV PEFEVATWIK ITLILVYLII FVMGLLGNSA TIRVTQVLQK
	KGYLQKEVTD HMVSLACSDI LVFLIGMPME FYSIIWNPLT TSSYTLSCKL HTFLFEACSY
	ATLLHVLTLS FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL
	VNVPSHRGLT CNRSSTRHHE QPETSNMSIC TNLSSRWTVF QSSIFGAFVV YLVVLLSVAF
	MCWNMMQVLM KSQKGSLAGG TRPPQLRKSE SEESRTARRQ TIIFLRLIVV TLAVCWMPNQ
	IRRIMAAAKP KHDWTRSYFR AYMILLPFSE TFFYLSSVIN PLLYTVSSQQ FRRVFVQVLC
	CRLSLQHANH EKRLRVHAHS TTDSARFVQR PLLFASRRQS SARRTEKIFL STFQSEAEPQ
	SKSQSLSLES LEPNSGAKPA NSAAENGFQE HEV
	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.

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## Product Details

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

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Target:	GPR39
Alternative Name:	GPR39 (GPR39 Products)
Background:	G-protein coupled receptor 39,FUNCTION: Zinc-sensing receptor that can sense changes in
	extracellular Zn(2+), mediate Zn(2+) signal transmission, and participates in the regulation of
	numerous physiological processes including glucose homeostasis regulation, gastrointestinal
	mobility, hormone secretion and cell death (PubMed:18180304). Activation by Zn(2+) in
	keratinocytes increases the intracellular concentration of Ca(2+) and activates the ERK/MAPK
	and PI3K/AKT signaling pathways leading to epithelial repair (PubMed:20522546). Plays an
	essential role in normal wound healing by inducing the production of cytokines including the
	major inflammatory cytokine IL6 via the PKC/MAPK/CEBPB pathway (By similarity). Regulates
	adipose tissue metabolism, especially lipolysis, and regulates the function of lipases, such as
	hormone-sensitive lipase and adipose triglyceride lipase (By similarity). Plays a role in the
	inhibition of cell death and protects against oxidative, endoplasmic reticulum and mitochondria
	stress by inducing secretion of the cytoprotective pigment epithelium-derived growth factor
	(PEDF) and probably other protective transcripts in a GNA13/RHOA/SRE-dependent manner
	(PubMed:18180304). Forms dynamic heteroreceptor complexes with HTR1A and GALR1
	depending on cell type or specific physiological states, resulting in signaling diversity: HTR1A-
	GPR39 shows additive increase in signaling along the serum response element (SRE) and NF-
	kappa-B pathways while GALR1 acts as an antagonist blocking SRE (PubMed:26365466).
	{EC0:0000250 UniProtKB:Q5U431, EC0:0000269 PubMed:18180304,
	ECO:0000269 PubMed:20522546, ECO:0000269 PubMed:26365466}.
Molecular Weight:	51.3 kDa
UniProt:	043194
Pathways:	Positive Regulation of Peptide Hormone Secretion, Carbohydrate Homeostasis, Feeding
	Behaviour
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

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

Expiry Date:

12 months