

## Datasheet for ABIN7557558

### GPR39 Protein (AA 1-456) (His tag)



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#### Overview

Quantity:	1 mg
Target:	GPR39
Protein Characteristics:	AA 1-456
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GPR39 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

#### Product Details

Purpose:	Custom-made recombinat Gpr39 Protein expressed in mammalien cells.
Sequence:	<p>MASSSGSNHI CSRVIDHSHV PEFEVATWIK ITLILVYLII FVVGILGNSV TIRVTQVLQK</p> <p>KGYLQKEVTD H MVSLACSDI LVFLIGMPME FYSIIWNPLT TPSYALSCKL HTFLFETCSY</p> <p>ATLLHVL TLS FERYAICHP FKYKAVSGPR QVKLLIGFVW VTSALVALPL LFAMGIEYPL</p> <p>VNVPT HKGLN CNLSRTRHHD EPGNSNMSIC TNLSNRWEVF QSSIFGAFV YLVVLASVAF</p> <p>MCWNMMKVLM KSKQGTLAGT GPQLQLRKSE SEESRTARRQ TIIFLRLIV TLAVCWMPNQ</p> <p>IRRIMAAAKP KHDWTRTYFR AYMILLPFSD TFFYLSSVVN PLLYNVSSQK FRKVFQVQLC</p> <p>CRLTLQHANQ EKRQRARFIS TKDSTSSARS PLIFLASRRS NSSRRTNKV FLSTFQTEAK</p> <p>PGEAKPQPLS PESPTGTSET KPAGSTTENS LQEQEV <b>Sequence without tag. The proposed Purification-Tag is based on experiences 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.</b></p>

## Product Details

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### Characteristics:

### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

### Purity:

> 90 % as determined by Bis-Tris Page, Western Blot

### Grade:

custom-made

## Target Details

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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:17030183, 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 (By similarity). 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 (PubMed:31346193). Regulates adipose tissue metabolism, especially lipolysis, and regulates the function of lipases, such as hormone-sensitive lipase and adipose triglyceride lipase (PubMed:21784784). Plays a role in the inhibition of cell death and protects against oxidative, endoplasmic reticulum and mitochondrial stress by inducing secretion of the cytoprotective pigment epithelium-derived growth factor (PEDF) and probably other protective transcripts in a GNA13/RHOA/SRE-

## Target Details

dependent manner. 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 (By similarity).  
{ECO:0000250|UniProtKB:O43194, ECO:0000269|PubMed:17030183, ECO:0000269|PubMed:18180304, ECO:0000269|PubMed:21784784, ECO:0000269|PubMed:31346193}.

Molecular Weight:	51.6 kDa
UniProt:	<a href="#">Q5U431</a>
Pathways:	<a href="#">Positive Regulation of Peptide Hormone Secretion, Carbohydrate Homeostasis, Feeding Behaviour</a>

## 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.
Restrictions:	For Research Use only

## Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months