

Datasheet for ABIN3122744

GAS8 Protein (AA 1-478) (Strep Tag)[Go to Product page](#)

Overview

Quantity:	1 mg
Target:	GAS8
Protein Characteristics:	AA 1-478
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAS8 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence:	<p>MAPKKKGKKG KAKGTAIVDG VAPEDMTKEQ VEEHVARIRE ELDREREERN YFQLERDKIH TFWEITRRQL EEKKAELRNK DREMEEAER HQVEIKVYKQ KVKHLLYEHQ NNLAEVKAEG TVVMKLAQKE HRTQEGALRK DMRVLKVELK EQELANEVVI KNLCLKQAE ITKMRNDFER QVREIEAKYD KKMKMLRDEL DLRRKTEIHE VEERKNGQIS TLMQRHEEAF TDIKNYYNDI TLNNLALINS LKEQMEDMRK KEEHMEREMA EVT LQNRRLA DPLQKAKDEM NEMQKRLGNH ERDKQILVCT KARLKVAERE LKDLKWEHEV LEQRFIKVQQ EREELYRKFA DAIQEVQOKT GFKNLLLERK LQALNAAVEK REVQFNEVLA ASNLDPTALT LVSRKLEDVL ESKNTTIKDL QYELARVCKA HNDLLRITYEA KLLAFGIPLD NVGFKPLETA VIGQTLGQGP AGLVGAPT</p> <p>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.</p>
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Characteristics:	Key Benefits:
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Product Details

- 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 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!

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: > 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target: GAS8

Alternative Name: Gas8 ([GAS8 Products](#))

Target Details

Background: Dynein regulatory complex subunit 4 (Growth arrest-specific protein 11) (GAS-11) (Growth arrest-specific protein 8) (GAS-8),FUNCTION: Component of the nexin-dynein regulatory complex (N-DRC), a key regulator of ciliary/flagellar motility which maintains the alignment and integrity of the distal axoneme and regulates microtubule sliding in motile axonemes. Plays an important role in the assembly of the N-DRC linker (By similarity). Plays dual roles at both the primary (or non-motile) cilia to regulate hedgehog signaling and in motile cilia to coordinate cilia movement. Required for proper motile cilia functioning. Positively regulates ciliary smoothed (SMO)-dependent Hedgehog (Hh) signaling pathway by facilitating the trafficking of SMO into the cilium and the stimulation of SMO activity in a GRK2-dependent manner (PubMed:17366626, PubMed:21659505, PubMed:27472056). May play a role in the spermatozoa motility (PubMed:11751847). {ECO:0000250|UniProtKB:Q7XJ96, ECO:0000269|PubMed:11751847, ECO:0000269|PubMed:17366626, ECO:0000269|PubMed:21659505, ECO:0000269|PubMed:27472056}.

Molecular Weight: 56.3 kDa

UniProt: [Q60779](#)

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.

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)