

Datasheet for ABIN7545214  
**GAS41 Protein (AA 1-227) (His tag)**



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3 Images

## Overview

Quantity:	1 mg
Target:	GAS41
Protein Characteristics:	AA 1-227
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GAS41 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant YEATS4 Protein expressed in mammalian cells.
Sequence:	<p>MFKRMAEFGP DSGGRVKGVT IVKPIVYGNV ARYFGKKREE DGHTHQWTVY VKPYRNEDMS</p> <p>AYVKKIQFKL HESYGNPLRV VTKPPYEITE TGWGEFEIII KIFFIDPNER PVTLYHLLKL</p> <p>FQSDTNAMLG KKTVMSEFYD EMIFQDPTAM MQQLLTTSRQ LTLGAYKHET EFAELEVKTR</p> <p>EKLEAAKKKT SFEIAELKER LKASRETINC LKNEIRKLEE DDQAKDI <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>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> <li>Made to order protein - from design to production - by highly experienced protein experts.</li> </ul>

## Product Details

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- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

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Target:	GAS41
Alternative Name:	YEATS4 ( <a href="#">GAS41 Products</a> )
Background:	<p>YEATS domain-containing protein 4 (Glioma-amplified sequence 41) (Gas41) (NuMA-binding protein 1) (NuBI-1) (NuBI1),FUNCTION: Chromatin reader component of the NuA4 histone acetyltransferase (HAT) complex, a complex involved in transcriptional activation of select genes principally by acetylation of nucleosomal histones H4 and H2A (PubMed:12963728, PubMed:14966270). Specifically recognizes and binds acylated histone H3, with a preference for histone H3 diacetylated at 'Lys-18' and 'Lys-27' (H3K18ac and H3K27ac) or histone H3 diacetylated at 'Lys-14' and 'Lys-27' (H3K14ac and H3K27ac) (PubMed:29437725, PubMed:30071723, PubMed:29900004). Also able to recognize and bind crotonylated histone H3 (PubMed:30071723). May also recognize and bind histone H3 succinylated at 'Lys-122' (H3K122succ), additional evidences are however required to confirm this result in vivo (PubMed:29463709). Plays a key role in histone variant H2AZ1/H2A.Z deposition into specific chromatin regions: recognizes and binds H3K14ac and H3K27ac on the promoters of actively transcribed genes and recruits NuA4-related complex to deposit H2AZ1/H2A.Z (PubMed:29437725). H2AZ1/H2A.Z deposition is required for maintenance of embryonic stem cell (By similarity). {ECO:0000250 UniProtKB:Q9CR11, ECO:0000269 PubMed:12963728,</p>

Target Details

	ECO:0000269 PubMed:14966270, ECO:0000269 PubMed:29437725, ECO:0000269 PubMed:29463709, ECO:0000269 PubMed:29900004, ECO:0000269 PubMed:30071723}.
Molecular Weight:	26.5 kDa
UniProt:	<a href="#">O95619</a>

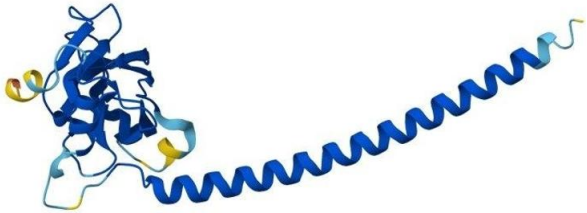
Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

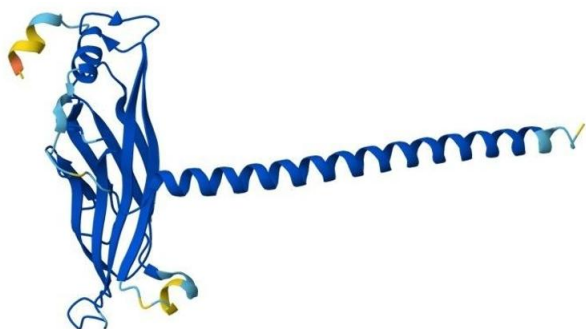
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months

Images



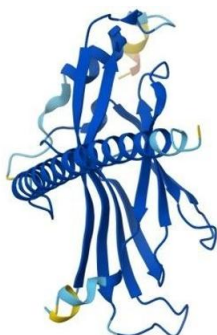
**Protein Structure**

**Image 1.** AlphaFold protein structure prediction of Human Recombinant YEATS4 Protein, UniprotID O95619



#### Protein Structure

**Image 2.** AlphaFold protein structure prediction of Human Recombinant YEATS4 Protein, UniprotID O95619



#### Protein Structure

**Image 3.** AlphaFold protein structure prediction of Human Recombinant YEATS4 Protein, UniprotID O95619