

Datasheet for ABIN7554006  
**GGA3 Protein (AA 1-723) (His tag)**



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## Overview

Quantity:	1 mg
Target:	GGA3
Protein Characteristics:	AA 1-723
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GGA3 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat GGA3 Protein expressed in mammalien cells.
Sequence:	<p>MAEAEGESLE SWLNKATNPS NRQEDWEYII GFCDQINKEL EGPQIAVRLI AHKIQSPQEW  EALQALTVLE ACMKNCGRRF HNEVGKFRFL NELIKVVSPK YLGDRVSEKV KTKVIELLYS  WTMALPEEAK IKDAYHMLKR QGIVQSDPPI PVDRTLIPSP PPRPKNPVFD DEEKSKLLAK  LLKSKNPDDL QEANKLIKSM VKEDEARIQK VTKRLHTLEE VNNNVRLLE MLLHYSQEDS  SDGDRELMKE LFDQCENKRR TLFKLASETE DNDNSLGDIL QASDNLSRVI NSYKTIIEGQ  VINGEVATLT LPDSEGNSQC SNQGTLLDLA ELDTTNSLSS VLAPAPTPPS SGIPILPPPP  QASGPPRSRS SSQAEATLGP SSTSNALSWL DEELLCLGLA DPAPNVPPKE SAGNSQWHLL  QREQSDLDFD SPRPGTAACG ASDAPLLQPS APSSSSSQAP LPPFPAPVV PASVPAPSAG  SSLFSTGVAP ALAPKVEPAV PGHHGLALGN SALHHLDALD QLLEEKVTS GLVKPTTSPL  IPTTTTPARPL LPFSTGPGSP LFQPLSFQSQ GSPPKGPPELS LASHVPLES IKPSSALPVT  AYDKNGFRIL FHFAKECPPG RPDVLVVVVS MLNTAPLPVK SIVLQAAVVK SMKVKLQPPS</p>

## Product Details

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GTELSPFSPI QPPAAITQVM LLANPLKEKV RLRYKLTFAL GEQLSTEVGE VDQFPPVEQW GNL

**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.**

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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.

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

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Grade: custom-made

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## Target Details

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Target: GGA3

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Alternative Name: GGA3 ([GGA3 Products](#))

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Background: ADP-ribosylation factor-binding protein GGA3 (Golgi-localized, gamma ear-containing, ARF-binding protein 3),FUNCTION: Plays a role in protein sorting and trafficking between the trans-Golgi network (TGN) and endosomes. Mediates the ARF-dependent recruitment of clathrin to the TGN and binds ubiquitinated proteins and membrane cargo molecules with a cytosolic acidic cluster-dileucine (DXXLL) motif (PubMed:11301005). Mediates export of the GPCR receptor ADRA2B to the cell surface (PubMed:26811329). Involved in BACE1 transport and sorting as well as regulation of BACE1 protein levels (PubMed:17553422, PubMed:15615712, PubMed:20484053). Regulates retrograde transport of BACE1 from endosomes to the trans-Golgi network via interaction through the VHS motif and dependent of BACE1 phosphorylation

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## Target Details

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(PubMed:15615712). Modulates BACE1 protein levels independently of the interaction between VHS domain and DXXLL motif through recognition of ubiquitination (PubMed:20484053). Key player in a novel DXXLL-mediated endosomal sorting machinery to the recycling pathway that targets NTRK1 to the plasma membrane (By similarity).

{ECO:0000250|UniProtKB:A0A0G2JV04, ECO:0000269|PubMed:11301005, ECO:0000269|PubMed:15615712, ECO:0000269|PubMed:17553422, ECO:0000269|PubMed:20484053, ECO:0000269|PubMed:26811329}.

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Molecular Weight: 78.3 kDa

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UniProt: [Q9NZ52](#)

## Application Details

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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.

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Restrictions: For Research Use only

## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months