

Datasheet for ABIN7558336  
**GCS1 Protein (AA 1-834) (His tag)**



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## Overview

Quantity:	1 mg
Target:	GCS1 (MOGS)
Protein Characteristics:	AA 1-834
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This GCS1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat Mogs Protein expressed in mammalien cells.
Sequence:	MARGERRRRA AAAEGARPLE RARAAGRRDG RAGGARGSAS GAALAVVVLA LAFGLSGRWV LAWLRVRRAL TLHPAPSALP PDSSSPAVAP ELFWGTYRPH VYFGMKTRSP KPLLTGLMWA QQGATPGTPP KLRHTCEQGD GVGPGWFEFH DGRTFGRQHI HDGALRLTTE FVKRPGGQHG GDWSWRVTVE PQASGTPSFP LVSLFFYVVT DGQEVLLPEI GAKGQLKISIS GHTSELGDFR LTLPPPTSPG DTVPKHGSYN VFWSSNPGLP QLDMVKSRL NSWFQHRPPG ASPDRYLGLP GSLKWEERGP SGQQFLIQQ VTLKAPFSVE FVFESGSAAT GGNQASGRLV GSQLTQALES HAAAFKERFE KTFQLKEKGL SPEEQALGQV ALSGLLGGIG YFYGQGLVLP DTSMEGSEQK MDPALFPPVP LFSGVPSRSF FPRGFLWDEG FHQLVVQRWD PHLTREALGH WLGLLNADGW IGREQILGDE ARARVPPEFL VQRAAHANPP TLLLPVVHML EGHDPDDLAF LRKAFPRLHA WFSWLHQSQG GPVPLSYRWR GRDLALPTLL NPKTLPSGLD DYPRASHPST AERHLDLRCW VALGARVLSQ LAEQLGETEA AAELGPLAAS LEEPGSLDEL HWAPELGVFA DFGNHTKAVQ

## Product Details

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LKSRPPQGLV RVVGRPPPR L QYVDALGYVS LFPLLLQLLD PSSPRLGPLL DVLADSRHLW  
SPFGLRSLSA SSLFYKQRNT EHDPPYWRGA VWLNINYLAL GALHHYGHVE GPHKVQAAKL  
YHEL RANVVR NVRQQYQATG FLWEQYSDQD GRGMGCRPFQ GWTSLVLLIM AEEY **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:

GCS1 (MOGS)

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### Alternative Name:

Mogs ([MOGS Products](#))

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### Background:

Mannosyl-oligosaccharide glucosidase (EC 3.2.1.106) (Endoplasmic reticulum alpha-glucosidase I) (ER glu I) (Glucosidase 1) (Glycoprotein-processing glucosidase I),FUNCTION: In the context of N-glycan degradation, cleaves the distal alpha 1,2-linked glucose residue from the Glc(3)Man(9)GlcNAc(2) oligosaccharide precursor in a highly specific manner. {ECO:0000250|UniProtKB:Q13724}, FUNCTION: (Microbial infection) Required for successful influenza or dengue virus infection, inhibition of its activity by a deoxynojirimycin derivative prevents death in mice infected with lethal doses of influenza or dengue viruses, even when

## Target Details

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administrated after infection. {ECO:0000269|PubMed:32227946}.

Molecular Weight: 91.8 kDa

UniProt: [Q80UM7](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

## 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.

Restrictions: For Research Use only

## Handling

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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