

Datasheet for ABIN7556007  
**TCIRG1 Protein (AA 1-830) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TCIRG1
Protein Characteristics:	AA 1-830
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TCIRG1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat TCIRG1 Protein expressed in mammalien cells.
Sequence:	<p>MGSMFRSEEV ALVQLFLPTA AAYTCVSR LG ELGLVEFRDL NASVSAFQRR FVVDVRRCEE  LEKTFTFLQE EVRRAGLVLP PPKGRLPAPP PRDLLRIQEE TERLAQELRD VRGNQQALRA  QLHQLQLHAA VLRQGHQPQL AAAHTDGASE RTPLLQAPGG PHQDLRVNFV AGAVEPHKAP  ALERLLWRAC RGFLIASFRE LEQPLEHPVT GEPATWMTFL ISYWGEQIQG KIRKITDCFH  CHVFPFLQQE EARLGALQQL QQSQELQEV LGETERFLSQ VLGRVLQLLP PGQVQVHKMK  AVYLALNQCS VSTTHKCLIA EAWCSVRDLP ALQEALRDSS MEEGVS AVAH RIPCRDMPPT  LIRTNRFTAS FQGIVDAYGV GRYQEVNPAP YTIITFPFLF AVMFGDVGHG LLMFLFALAM  VLAENRPAVK AAQNEIWQTF FRGRYLLLLM GLFSIYTGFI YNECFSRATS IFPSGWSVAA  MANQSGWSDA FLAQHTMLTL DPNVTGVFLG PYPFGIDPIW SLAANHLSFL NSFKMMSVI  LGVVHMAFGV VLGVFNVHFV GQRHRLLEL LPELTFLLGL FGYLVLVIY KWLVCVWAARA  ASAPSILIH F INMFLFSHSP SNRLLYPRQE VVQATLVVLA LAMVPILLG TPLHLLHRHR</p>

## Product Details

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RRLRRRPADR QEENKAGLLD LPDASVNGWS SDEEKAGGLD DEEEAELVPS EVLMHQAIHT  
IEFCLGCVSN TASYLRLWAL SLAHAQLSEV LWAMVMRIGL GLGREVGVA VVLVPIFAAF  
AVMTVAILLV MEGLSAFLHA LRLHWVEFQN KFYSGTGYKL SPFTFAATDD **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:

TCIRG1

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### Alternative Name:

TCIRG1 ([TCIRG1 Products](#))

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### Background:

V-type proton ATPase 116 kDa subunit a 3 (V-ATPase 116 kDa subunit a 3) (Osteoclastic proton pump 116 kDa subunit) (OC-116 kDa) (OC116) (T-cell immune regulator 1) (T-cell immune response cDNA7 protein) (TIRC7) (Vacuolar proton translocating ATPase 116 kDa subunit a isoform 3),FUNCTION: Subunit of the V0 complex of vacuolar(H<sup>+</sup>)-ATPase (V-ATPase), a multisubunit enzyme composed of a peripheral complex (V1) that hydrolyzes ATP and a membrane integral complex (V0) that translocates protons (By similarity). V-ATPase is responsible for acidifying and maintaining the pH of intracellular compartments and in some

## Target Details

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cell types, is targeted to the plasma membrane, where it is responsible for acidifying the extracellular environment (By similarity). Seems to be directly involved in T-cell activation (PubMed:10329006). {ECO:0000250|UniProtKB:Q29466, ECO:0000250|UniProtKB:Q93050, ECO:0000269|PubMed:10329006}.

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Molecular Weight: 93.0 kDa

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UniProt: [Q13488](#)

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Pathways: [Transition Metal Ion Homeostasis, Proton Transport](#)

## 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