

Datasheet for ABIN7555710  
**TBC1D5 Protein (AA 1-795) (His tag)**



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## Overview

Quantity:	1 mg
Target:	TBC1D5
Protein Characteristics:	AA 1-795
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TBC1D5 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat TBC1D5 Protein expressed in mammalien cells.
Sequence:	MYHSLSETRH PLQPEEQEVG IDPLSSYSNK SGGDSNKNGR RTSSTLDSEG TFNSYRKEWE ELFVNNNYLA TIRQKGINGQ LRSSRFRSIC WKLFLCVLPQ DKSQWISRIE ELRAWYSNIK EIHITNPRKV VGQQDLMINN PLSQDEGSLW NKFFQDKELR SMIEQDVKRT FPQMFFQQE NVRKILTDVL FCYARENEQL LYKQGMHELL APIVFLHCD HQAFLHASES AQPSEEMKTV LNPEYLEHDA YAVFSQLMET AEPWFSTFEH DGQKGKETLM TPIPFARPQD LGPTIAIVTK VNQIQDHLLK KHDIELYMHL NRLEIAPQIY GLRWVRLFLG REFPLQDLLV VWDALFADGL SLGLVDYIFV AMLLYIRDAL ISSNYQTCLG LLMHYPPFIGD VHSLILKALF LRDPKRNPRP VTYQFHPNLD YYKARGADLM NKSRTNAKGA PLNINKVSNS LINFGRKLIS PAMAPGSAGG PVPGGNSSSS SSVVIPTRTS AEAPSHHLQQ QQQQRLMKS ESMVPQLNKG LSSKNISSSP SVESLPGGRE FTGSPSSAT KKDSFFSNIS RSRSHSKTMG RKESEEELEA QISFLQGQLN DLDAMCKYCA KVMDTHLVNI QDVILQENLE KEDQILVSLA GLKQIKDILK GSLRFNQSGL

## Product Details

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EAEENEQITI ADNHYCSSGQ GQGRGQGQSV QMSGAIKQAS SETPGCTDRG NSDDFILISK  
DDDGSSARGS FSGQAQPLRT LRSTSGKSQA PVCSPLVFSD PLMGPASASS SNPSSSPDDD  
SSKDSGFTIV SPLDI **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:

TBC1D5

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### Alternative Name:

TBC1D5 ([TBC1D5 Products](#))

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### Background:

TBC1 domain family member 5,FUNCTION: May act as a GTPase-activating protein (GAP) for Rab family protein(s). May act as a GAP for RAB7A. Can displace RAB7A and retromer CSC subcomplex from the endosomal membrane to the cytosol, at least retromer displacement seems to require its catalytic activity (PubMed:19531583, PubMed:20923837). Required for retrograde transport of cargo proteins from endosomes to the trans-Golgi network (TGN), the function seems to require its catalytic activity. Involved in regulation of autophagy (PubMed:22354992). May act as a molecular switch between endosomal and autophagosomal transport and is involved in reprogramming vesicle trafficking upon autophagy induction.

## Target Details

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Involved in the trafficking of ATG9A upon activation of autophagy. May regulate the recruitment of ATG9A-AP2-containing vesicles to autophagic membranes (PubMed:24603492).

{ECO:0000269|PubMed:19531583, ECO:0000269|PubMed:20923837, ECO:0000269|PubMed:22354992, ECO:0000269|PubMed:24603492, ECO:0000305|PubMed:19531583, ECO:0000305|PubMed:22354992, ECO:0000305|PubMed:24603492}.

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Molecular Weight: 89.0 kDa

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UniProt: [Q92609](#)

## 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