

Datasheet for ABIN7553675  
**DEF6 Protein (AA 1-631) (His tag)**



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## Overview

Quantity:	1 mg
Target:	DEF6
Protein Characteristics:	AA 1-631
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DEF6 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat DEF6 Protein expressed in mammalien cells.
Sequence:	<p>MALRKELLKS IWYAFTALDV EKSGKVSQSQ LKVLSHNLYT VLHIPHDPVA LEEHFRDDDD            GPVSSQGYMP YLNKYILDKV EEGAFVKEHF DELCWTLTAK KNYRADSNGN SMLSNQDAFR            LWCLFNFLSE DKYPLIMVPD EVEYLLKKVL SSMSLEVSLG ELEELLAQEA QVAQTTGGLS            VWQFLELFNS GRCLRGVGRD TLSMAIHEVY QELIQDVLKQ GYLWKRGLHR RNWAERWFQL            QPSCLCYFGS EECKEKGRII PLDAHCCVEV LPDRDGKRCM FCVKTANRTY EMSASDTRQR            QEWTAAIQMA IRLQAEGKTS LHKDLKQKRR EQREQRERRR AAKEEELLRL QQLQEEKERK            LQELELLQEA QRQAERLLQE EEERRRSQHR ELQQALEGQL REAEQARASM QAEMELKEEE            AARQRRIKE LEEMQQLQE ALQLEVKARR DEESVRIAQT RLLEEEEEKL KQLMQLKEEQ            ERYIERAQQE KEELQQEMAQ QSRSLQQAQQ QLEEVQRNRQ RADEDVEAAQ RKLQRQASTNV            KHWNVQMNRL MHPIEPGDKR PVTSSSFSGF QPPLLAHRDS SLKRLTRWGS QGNRTSPSNS            NEQQKSLNGG DEAPAPASTP QEDKLDPAPE N <b>Sequence without tag. The proposed</b></p>

**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.**

### 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.

### Purity:

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

### Grade:

custom-made

## Target Details

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### Target:

DEF6

### Alternative Name:

DEF6 ([DEF6 Products](#))

### Background:

Differentially expressed in FDCP 6 homolog (DEF-6) (IRF4-binding protein),FUNCTION: Phosphatidylinositol 3,4,5-trisphosphate-dependent guanine nucleotide exchange factor (GEF) which plays a role in the activation of Rho GTPases RAC1, RhoA and CDC42 (PubMed:12651066, PubMed:15023524). Can regulate cell morphology in cooperation with activated RAC1 (By similarity). Involved in immune homeostasis by ensuring proper trafficking and availability of T-cell regulator CTLA-4 at T-cell surface (PubMed:31308374). Plays a role in Th2 (T helper cells) development and/or activation, perhaps by interfering with ZAP70 signaling (By similarity). {ECO:0000250|UniProtKB:Q8C2K1, ECO:0000269|PubMed:12651066, ECO:0000269|PubMed:15023524, ECO:0000269|PubMed:31308374}.

### Molecular Weight:

73.9 kDa

## Target Details

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UniProt: [Q9H4E7](#)

## 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