

Datasheet for ABIN7548404  
**HPS4 Protein (AA 1-708) (His tag)**



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## Overview

Quantity:	1 mg
Target:	HPS4
Protein Characteristics:	AA 1-708
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This HPS4 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Purpose:	Custom-made recombinat HPS4 Protein expressed in mammalian cells.
Sequence:	<p>MATSTSTEAK SASWWNYFFL YDGSKVKEEG DPTRAGICYF YPSQTLLDQQ ELLCGQIAGV</p> <p>VRCVSDISDS PPTLVRLRKL KFAIKVDGDY LWVLGCVEL PDVSCRFLD QLVGFFNFYN</p> <p>GPVSLAYENC SQEELSTEDW TFIEQILKNT SDLHKIFNSL WNLDQTKVEP LLLLKAARIL</p> <p>QTCQRSPHIL AGCILYKGLI VSTQLPPSLT AKVLLHRTAP QEQLPTGED APQEHGAALP</p> <p>PNVQIIPVHV TKEEASLHE FPVEQMTRSL ASPAGLQDGS AQHHPKGGST SALKENATGH</p> <p>VESMAWTTTPD PTSPDEACPD GRKENGCLSG HDLESIRPAG LHNSARGEVL GLSSSLGKEL</p> <p>VFLQEELDLS EIHPEAQEV EMASGHFAFL HVPVPDGRAP YCKASLSASS SLEPTPPEDT</p> <p>AISSLRPPSA PEMLTQHGAQ EQLEDHPGHS SQAPIPRADP LPRRTRRPLL LPRLDPGQRG</p> <p>NKLPTGEQGL DEDVDGVCES HAAPGLECSS GSANCQGAGP SADGISSRLT PAESCMGLVR</p> <p>MNLYTHCVKG LVLSLLAEEP LLGDSAAIEE VYHSSLASLN GLEVHLKETL PRDEAASTSS</p> <p>TYNFTHYDRI QSLLMANLPQ VATPQDRRFL QAVSLMHSEF AQLPALYEMT VRNASTAVYA</p>

CCNPIQETYF QQLAAPARSS GFPNPQDGAF SLSGKAKQKL LKHGVNLL **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.**

### 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

### Target:

HPS4

### Alternative Name:

HPS4 ([HPS4 Products](#))

### Background:

BLOC-3 complex member HPS4 (Hermansky-Pudlak syndrome 4 protein) (Light-ear protein homolog), FUNCTION: Component of the BLOC-3 complex, a complex that acts as a guanine exchange factor (GEF) for RAB32 and RAB38, promotes the exchange of GDP to GTP, converting them from an inactive GDP-bound form into an active GTP-bound form. The BLOC-3 complex plays an important role in the control of melanin production and melanosome biogenesis and promotes the membrane localization of RAB32 and RAB38 (PubMed:23084991). {ECO:0000269|PubMed:23084991}.

### Molecular Weight:

76.9 kDa

## Target Details

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UniProt: [Q9NQG7](#)

## 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