

Datasheet for ABIN7550678  
**PELO Protein (AA 1-385) (His tag)**



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## Overview

Quantity:	1 mg
Target:	PELO
Protein Characteristics:	AA 1-385
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PELO protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat PELO Protein expressed in mammalien cells.
Sequence:	MKLV RKNIK E DNAGQVTLVP EEPEDMWHTY NLVQVGD SLR ASTIRKVQTE SSTG SVGSNR VRTTLTLCVE AIDFDSQACQ LRVKGTNIQE NEYVKMGAYH TIELEPNRQF TLAKKQWDSV VLERIEQACD PAWSADVA AV VMQEGLAHIC LVTPSMTLTR AKVEVNIPRK RKGNC SQHDR ALERFYEQVV QAIQRHIHFD VVKCILV ASP GFVREQFCDY LFQQAVKTDN KLLLENRSKF LQVHASSGHK YSLKEALCDP TVASRLSDTK AAGEVKALDD FYKMLQHEPD RAFYGLKQVE KANEAMAIDT LLISDELFRH QDVATRSRYV RLVD SVKENA GTVRIFSSLH VSQEQLS QLT GVAAILRFPV PELSDQEGDS SSEED <b>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.</b>
Characteristics:	Key Benefits:

## Product Details

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- 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

## Target Details

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Target: PELO

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Alternative Name: PELO ([PELO Products](#))

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Background: Protein pelota homolog (hPelota) (Protein Dom34 homolog),FUNCTION: Component of the Pelota-HBS1L complex, a complex that recognizes stalled ribosomes and triggers the No-Go Decay (NGD) pathway (PubMed:21448132, PubMed:23667253, PubMed:27543824, PubMed:27863242). In the Pelota-HBS1L complex, PELO recognizes ribosomes stalled at the 3' end of an mRNA and engages stalled ribosomes by destabilizing mRNA in the mRNA channel (PubMed:27543824, PubMed:27863242). Following mRNA extraction from stalled ribosomes by the SKI complex, the Pelota-HBS1L complex promotes recruitment of ABCE1, which drives the disassembly of stalled ribosomes, followed by degradation of damaged mRNAs as part of the NGD pathway (PubMed:21448132, PubMed:32006463). As part of the PINK1-regulated signaling, upon mitochondrial damage is recruited to the ribosome/mRNA-ribonucleoprotein complex associated to mitochondrial outer membrane thereby enabling the recruitment of autophagy receptors and induction of mitophagy (PubMed:29861391).  
{ECO:0000269|PubMed:21448132, ECO:0000269|PubMed:23667253, ECO:0000269|PubMed:27543824, ECO:0000269|PubMed:27863242,

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## Target Details

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ECO:0000269|PubMed:29861391, ECO:0000269|PubMed:32006463}.

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Molecular Weight: 43.4 kDa

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UniProt: [Q9BRX2](#)

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## 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

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## 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

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