

Datasheet for ABIN7565155  
**NPHP1 Protein (AA 1-687) (His tag)**



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## Overview

Quantity:	1 mg
Target:	NPHP1
Protein Characteristics:	AA 1-687
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPHP1 protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant Nphp1 Protein expressed in mammalian cells.
Sequence:	MLARRPRDPL QALRRRGQEL KLQVDSLVTESQLTGALEPS KRREIYQRCI QLKQAVDENK NTLQKLNKAD EAAPVGNIEQ RKEEEHSLLE KLACQLQELA VSISRKDALK VEAHSDKEED DTTEDDEEET GGEEEESEGD GEGKQEQASP KQAETETVTY IALGDFAAQ TGD LTFKKGD VLHIIKKPD GWWLAKDAEG VEG LIPRTYL EPYNKEDKLE SSEGSEEGGE EDGEEDVEV DETADGAQVK QRTDSHWSAV RKAISEQINT VDVLATMGAI PAGFRPSTLS QLLDEAGNQF RASYFLQPEL TTSQLAFRDL TWDKAGTIM SRPSRVSLIL TLWSCKMIPL PGTSIQVLSR HIRLCLFDGS KVLSNIHTVR AVWQPKPKT WTFSPQVTGI LPCLLDGDCF IRSNSSTPDL GILFELGISY IRNSTGERGE LSCGWVFLKL FDASGVPIPA KTYELFLNGG TPYEKGVEVD PSVSRRAQGS VFRQMISVRR QPQLLVKLR LNRRSRAMLS LLPETLVGSM CSAHLLIFYR QILGDVLLRD RTNLQSADLI SHPVLATFPL LLEQPDVMDA LRSSWSEKES TLKRAEKRDK ELLKAEFLLV YHDCVLP LLH STLLPPFRWA EEETEAAARWK AIADFLKQSR ENEGSLKALL SPDGVHKPFD LSEQTFDFLG EIRKNSG <b>Sequence without tag. The proposed Purification-Tag</b>

## Product Details

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**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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

Grade: custom-made

## Target Details

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Target: NPHP1

Alternative Name: Nphp1 ([NPHP1 Products](#))

Background: Nephrocystin-1,FUNCTION: Together with BCAR1 it may play a role in the control of epithelial cell polarity. Involved in the organization of apical junctions in kidney cells, together with NPHP4 and RPGRIP1L/NPHP8 (PubMed:21565611). Does not seem to be strictly required for ciliogenesis (PubMed:19208653). Seems to help to recruit PTK2B/PYK2 to cell matrix adhesions, thereby initiating phosphorylation of PTK2B/PYK2 and PTK2B/PYK2-dependent signaling (PubMed:11493697). May play a role in the regulation of intraflagellar transport (IFT) during cilia assembly (PubMed:19208653). Required for normal retina development (PubMed:19208653). In connecting photoreceptor cilia influences the movement of some IFT proteins such as IFT88 and WDR19 (PubMed:19208653). Involved in spermatogenesis, required

## Target Details

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for the differentiation of early elongating spermatids into spermatozoa (PubMed:18684731).  
{ECO:0000269|PubMed:11493697, ECO:0000269|PubMed:18684731,  
ECO:0000269|PubMed:19208653, ECO:0000269|PubMed:21565611}.

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Molecular Weight: 77.0 kDa

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UniProt: [Q9QY53](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. 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