

Datasheet for ABIN7554857  
**OFD1 Protein (AA 1-1012) (His tag)**



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## Overview

Quantity:	1 mg
Target:	OFD1
Protein Characteristics:	AA 1-1012
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This OFD1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat OFD1 Protein expressed in mammalian cells.
Sequence:	<p>MMAQSNMFTV ADVLSQDELK KKLYQTFKDR GILDTLKTQL RNQLIHELMH PVLSGELQPR</p> <p>SISVEGSSLL IGASNSLVAD HLQRCGYEYS LSVFFPESGL AKEKVFTMQD LLQLIKINPT</p> <p>SSLYKSLVSG SDKENQKGFL MHFLKELAEY HQAKESCNME TQTSSTFNDR SLAEKLQLID</p> <p>DQFADAYPQR IKFESLEIKL NEYKREIEEQ LRAEMCQKLK FFKDTEIAKI KMEAKKKYEK</p> <p>ELTMFQNDFF KACQAKSEAL VLREKSTLER IHKHQEIETK EIIAQRQLLL KDMDLLRGRE</p> <p>AELKQRVEAF ELNQLKQEEK HKSITEALRR QEQNIKSFEY TYDRKLKNEL LKYQLELKDD</p> <p>YIIRTNRLIE DERKNKEKAV HLQEELIAIN SKKEELNQSV NRVKELELEL ESKVAQSLAI</p> <p>TKQNHMLNEK VKEMSDYSLL KEEKLELLAQ NKLLKQQLLE SRNENLRLLN RLAQPAPELA</p> <p>VFQKELRKAE KAIVVEHEEF ESCRQALHKQ LQDEIEHSAQ LKAQILGYKA SVKSLTTQVA</p> <p>DLKLQLKQTQ TALENEVYCN PKQSVIDRSV NGLINGNVVP CNGEISGDFL NNPFKQENVL</p> <p>ARMVASRITN YPTAWVEGSS PDSDFEFVAN TKARVKELQQ EAERLEKAFFR SYHRRVIKNS</p>

AKSPLAAKSP PSLHLEAFK NITSSSPERH IFGEDRVVSE QPQVGTLEER NDVVEALTGS  
AASRLRGGTS SRRLSSTPLP KAKRSLESEM YLEGLGRSHI ASPSPCPDRM PLPSPTESRH  
SLSIPPVSSP PEQKVGLYRR QTELQDKSEF SDVDKLAFKD NEEFESSFES AGNMMPRQLEM  
GGLSPAGDMS HVDAAAAAVP LSYQHPSVDQ KQIEEQKEEE KIREQQVKER RQREERRQSN  
LQEVLERERR ELEKLYQERK MIEESLKIKI KKELEMENEL EMSNQEI KDK SAHSENPLEK  
YMKIIQQEQD QESADKSSKK MVQEGSLVDT LQSSDKVESL TGFSHEELDD SW **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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	OFD1
Alternative Name:	OFD1 ( <a href="#">OFD1 Products</a> )
Background:	Centriole and centriolar satellite protein OFD1 (Oral-facial-digital syndrome 1 protein) (Protein 71-7A),FUNCTION: Component of the centrioles controlling mother and daughter centrioles length. Recruits to the centriole IFT88 and centriole distal appendage-specific proteins including CEP164 (By similarity). Involved in the biogenesis of the cilium, a centriole-associated function.

## Target Details

The cilium is a cell surface projection found in many vertebrate cells required to transduce signals important for development and tissue homeostasis (PubMed:33934390). Plays an important role in development by regulating Wnt signaling and the specification of the left-right axis. Only OFD1 localized at the centriolar satellites is removed by autophagy, which is an important step in the ciliogenesis regulation (By similarity). {ECO:0000250|UniProtKB:Q80Z25, ECO:0000269|PubMed:33934390}.

Molecular Weight: 116.7 kDa

UniProt: [O75665](#)

Pathways: [M Phase](#)

## Application Details

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

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