

Datasheet for ABIN3136086

OFD1 Protein (AA 1-1017) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	OFD1
Protein Characteristics:	AA 1-1017
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This OFD1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MAQSNMPHKS DVLSQDELRLK KLYQTFKDRG VLDTLQTQLR NQLIHELMHP VLSGEVKPPS</p> <p>ISVEGSALLI GASNSLVADH LQRCGYEYSL SVFFPESGLA KEKIFTMQDL LQLIRINPSS</p> <p>SLYKSLISGF DKENKKGFLM SFLKELAEYY QAKESCAET QTSTTFPSQV SLAEKFLID</p> <p>AQFADGFPHR SKLESLETKL NEYKKEVQHQ LQVEMCHKLK YFREAEITKV KMEERRKYEK</p> <p>ELAEFQNEFE RTCQAKNEAL ISQEKNSLER IKKHREMESK EIYAQRQLLL NDIALLRGRE</p> <p>AELKERIETF ELTQKLQEEK IKSEAEALER REQNLKNIED TYDQKLKTEL LKYQLELKDD</p> <p>YITRTNKLLE EERKNKEKTI HLQEELTVIN SKKEELSKSV KHMKEVELEL ESVKAQFLAI</p> <p>SKQNHLLNEK VREMSDYSQL KEEKVELQAQ NKLLKLQLEE TRNENLRLLD RITQPPPELV</p> <p>IFQKELQKTE KAMELEHKDF ETHRQALEKQ LQSEIENSAQ LRTQIAEYDA SVKRLTVQVA</p> <p>ELKSQKQTQ IALENEVYRN PKHSLIHSLS GLLSGKMAP HSEDKSGDFL NVPLEQNKVI</p> <p>AGAVMSRVPP YVNTATEASS PESDFEFIAS STKAKVRELE QEAERLEKAF RTYYQRATQN</p>

PSTSPQPAKS PPSVNSVAAL RSIASSSMDR PVSAEDRVVS EQPLGDMLKE EMSDMSKAFM
GSVVSRRPRT SSSTRLSSTP HPKSRRSLDN EMYLEGLGRL HMTSSSPLLD RVSASPAASP
SPCPERTAQA SPVPSRHSFS GLPEQNACLY QRQTETQDKS ELSNVDKQSL KDEKFEPPFR
WNKTEQFEAE GLHPAGDMPG IDFAVATQSS RLISYDYP SA VQSQTGEQDE QELWELHMKE
RRQREEQRHN ERQEALERER RELGKLEQER RMIEESLKME MEEELEKSVQ DQKDKSAHCE
NTLEKYMKII QQRQEE SNAD KSSKKSGKEC SLVDMMMPSD KDESSPGFSH EEPDDMW

Sequence without tag. The proposed Strep-Tag is based on experience s 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 in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.

Product Details

- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification: One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: OFD1

Alternative Name: Ofd1 ([OFD1 Products](#))

Background: Centriole and centriolar satellite protein OFD1 (Oral-facial-digital syndrome 1 protein homolog),FUNCTION: Component of the centrioles controlling mother and daughter centrioles length. Recruits to the centriole IFT88 and centriole distal appendage-specific proteins including CEP164. Involved in the biogenesis of the cilium, a centriole-associated function. The cilium is a cell surface projection found in many vertebrate cells required to transduce signals important for development and tissue homeostasis. 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. {ECO:0000269|PubMed:18084282, ECO:0000269|PubMed:20230748}.

Molecular Weight: 117.3 kDa

UniProt: [Q80Z25](#)

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.

Comment: ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.

Application Details

During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months