

Datasheet for ABIN3137243

## PALLD Protein (AA 1-1408) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	PALLD
Protein Characteristics:	AA 1-1408
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PALLD protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

### Product Details

Brand:	AlIcE®
Sequence:	<p>MSETSSHDSF YDSLSDVQEE GKSADFFPGL SAFLSQEEIN KSLDLARRAI DSSETEDFDS</p> <p>EKEISQIFSK SPISLCETPS HEEPKSGKQT SSERPQDSRR APVQPLTGDQ AERITSPGSK</p> <p>RKPGVSPLLA SPSYIRSLRK AEKRGAKNPN PSSKPKTAQQ SKAGPQSQLC DKAASFIEEL</p> <p>TSIFREAAKP RNRSPNGESS SPDSGYLSPK NQPSALMSAS ASQSPTADQL DQLEMDAEVK</p> <p>QAQGLCYQA HQASEETLPL AHIPHPQPQK ARHLPTAPRF IQKLRSQEVA EGSRVYLECR</p> <p>VTGNPTPRVR WFCEGKELYN SPDVQIHCES GELHTLVIAE AFEDDTGRYT CLATNPSGSD</p> <p>STSAEVFIEG ASSTDSDSES LSFISKAGAM PQAQKKTTSTV SLTIGSSAPK TGVTTAVIQP</p> <p>LSVPVQQAHS ATSYLCRPDG TTMGCLLPVF TKELQNTAAS EGQVVVLECR VRGAPPLQVQ</p> <p>WFRQGSEIQD SPDFRILQKK PRSTAEPEEI CTLVIAESFP EDAGIFTCSA TNDYGSVTST</p> <p>AQLVITSANN ENCSYDSTGE PNSDHFQHFPPPPILETGS YELASQKPSE IQQVNSPNLG</p> <p>FSMAALQMQF NTAERETNGV HPSHGVNGLI NGKAYGNKSP PTPTALLSPT KEPPPLAKP</p>

KLDPLKLQQL QNQVRLEQEA CAWPPAPPGV PCNSSSSGSS APPSPFPFPP PPAFPELAAC  
ASVPVSEPMS ALASRATAMQ SSGSFNYARP KQFIAAQN LG PASGLPTPTS SPSSSSLPSP  
LSPTPRPFGR APGPPFVEPE AMWGPSSPSP PVPVVFSP SAAYPVPDVF PLPPPPPLP  
SSTSHCASPA RFGPSQTPAA FLSALLPSQP PPVAVNALGL PKGVTPAGFP KKSRTARIA  
SDEEIQGTKD AVIQDLERKL RFKEDLLNNG QPRLTYEERM ARRLGADSA NVFNIQEPEE  
TAAQDAGAP RASVGGPLDG QKEYKVSSCE QRLISEIEYR LERSPVDESG DEVQDPDVPV  
ENATAPFFEM KKKHYKIFEG MPVTFTCRVA GNPVKPKIYWF KDGKQISPKS DHYTIQRDL  
GTCSLHTTAS TLDDGNYTI MAANPQGRVS CTGRLMVQAV NQRGRSPRSP SGHPHARRPR  
SRSRDSGDEN EPIQERFFRP HFLQAPGDLT VQEGKLCRMD CKVSGLPTPD LSWQLDGKPI  
RPDSAHKMLV RENGVSLLII EPVTSRDAGI YTCIATNRAG QNSFNLELVV AAKEAHKAPV  
FMEKLQNTGV ADGYPVRLEC RVSGVPPPI FWKKENESLT HSTERVSMHQ DNHGICLLI  
QGATKEDAGW YTVSAKNEAG IVSCTARLDV YQWHQQPQT TKPKKVRPSA SRYAALSDQG  
LDIAAFQPE ASPSHLTLNS GLVEEDL

**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.**

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### 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

## Product Details

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.
- 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:	PALLD
Alternative Name:	Palld ( <a href="#">PALLD Products</a> )
Background:	<p>Palladin,FUNCTION: Cytoskeletal protein required for organization of normal actin cytoskeleton. Roles in establishing cell morphology, motility, cell adhesion and cell-extracellular matrix interactions in a variety of cell types. May function as a scaffolding molecule with the potential to influence both actin polymerization and the assembly of existing actin filaments into higher-order arrays. Binds to proteins that bind to either monomeric or filamentous actin. Localizes at sites where active actin remodeling takes place, such as lamellipodia and membrane ruffles. Different isoforms may have functional differences. Involved in the control of morphological and cytoskeletal changes associated with dendritic cell maturation. Involved in targeting ACTN to specific subcellular locations. May be required for the initiation of neural tube closure.</p> <p>{ECO:0000269 PubMed:10931874, ECO:0000269 PubMed:15950489, ECO:0000269 PubMed:16492705, ECO:0000269 PubMed:17115415}.</p>
Molecular Weight:	152.1 kDa
UniProt:	<a href="#">Q9ET54</a>

## 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.

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