

# Datasheet for ABIN3118342 PNPLA8 Protein (AA 1-782) (Strep Tag)



Overview

Quantity:	250 μg
Target:	PNPLA8
Protein Characteristics:	AA 1-782
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PNPLA8 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	MSINLTVDIY IYLLSNARSV CGKQRSKQLY FLFSPKHYWR ISHISLQRGF HTNIIRCKWT
	KSEAHSCSKH CYSPSNHGLH IGILKLSTSA PKGLTKVNIC MSRIKSTLNS VSKAVFGNQN
	EMISRLAQFK PSSQILRKVS DSGWLKQKNI KQAIKSLKKY SDKSAEKSPF PEEKSHIIDK
	EEDIGKRSLF HYTSSITTKF GDSFYFLSNH INSYFKRKEK MSQQKENEHF RDKSELEDKK
	VEEGKLRSPD PGILAYKPGS ESVHTVDKPT SPSAIPDVLQ VSTKQSIANF LSRPTEGVQA
	LVGGYIGGLV PKLKYDSKSQ SEEQEEPAKT DQAVSKDRNA EEKKRLSLQR EKIIARVSID
	NRTRALVQAL RRTTDPKLCI TRVEELTFHL LEFPEGKGVA VKERIIPYLL RLRQIKDETL
	QAAVREILAL IGYVDPVKGR GIRILSIDGG GTRGVVALQT LRKLVELTQK PVHQLFDYIC
	GVSTGAILAF MLGLFHMPLD ECEELYRKLG SDVFSQNVIV GTVKMSWSHA FYDSQTWENI
	LKDRMGSALM IETARNPTCP KVAAVSTIVN RGITPKAFVF RNYGHFPGIN SHYLGGCQYK
	MWQAIRASSA APGYFAEYAL GNDLHQDGGL LLNNPSALAM HECKCLWPDV PLECIVSLGT

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#### Characteristics:

- 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:

Key Benefits:

- 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 posttranslational 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.
- 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®).

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### Product Details

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

 Grade:
 custom-made

## Target Details

Target:	PNPLA8
Alternative Name:	PNPLA8 (PNPLA8 Products)
Background:	Calcium-independent phospholipase A2-gamma (EC 3.1.1) (EC 3.1.1.5) (Intracellular
	membrane-associated calcium-independent phospholipase A2 gamma) (iPLA2-gamma)
	(PNPLA-gamma) (Patatin-like phospholipase domain-containing protein 8) (iPLA2-
	2),FUNCTION: Calcium-independent and membrane-bound phospholipase, that catalyzes the
	esterolytic cleavage of fatty acids from glycerophospholipids to yield free fatty acids and
	lysophospholipids, hence regulating membrane physical properties and the release of lipid
	second messengers and growth factors (PubMed:10833412, PubMed:10744668,
	PubMed:15695510, PubMed:15908428, PubMed:17213206, PubMed:18171998,
	PubMed:28442572). Hydrolyzes phosphatidylethanolamine, phosphatidylcholine and probably
	phosphatidylinositol with a possible preference for the former (PubMed:15695510). Has also a
	broad substrate specificity in terms of fatty acid moieties, hydrolyzing saturated and mono-
	unsaturated fatty acids at nearly equal rates from either the sn-1 or sn-2 position in diacyl
	phosphatidylcholine (PubMed:10833412, PubMed:10744668, PubMed:15695510,
	PubMed:15908428). However, has a weak activity toward polyunsaturated fatty acids at the sn
	2 position, and thereby favors the production of 2-arachidonoyl lysophosphatidylcholine, a key
	branch point metabolite in eicosanoid signaling (PubMed:15908428). On the other hand, can
	produce arachidonic acid from the sn-1 position of diacyl phospholipid and from the sn-2
	position of arachidonate-containing plasmalogen substrates (PubMed:15908428). Therefore,
	plays an important role in the mobilization of arachidonic acid in response to cellular stimuli
	and the generation of lipid second messengers (PubMed:15695510, PubMed:15908428). Can
	also hydrolyze lysophosphatidylcholine (PubMed:15695510). In the mitochondrial
	compartment, catalyzes the hydrolysis and release of oxidized aliphatic chains from cardiolipir
	and integrates mitochondrial bioenergetics and signaling. It is essential for maintaining efficier
	bioenergetic mitochondrial function through tailoring mitochondrial membrane lipid
	metabolism and composition (PubMed:28442572). {ECO:0000250 UniProtKB:Q8K1N1,
	ECO:0000269 PubMed:10744668, ECO:0000269 PubMed:10833412,
	ECO:0000269 PubMed:15695510, ECO:0000269 PubMed:15908428,
	EC0:0000269 PubMed:17213206, EC0:0000269 PubMed:18171998,

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Target Details	
	ECO:0000269 PubMed:28442572}.
Molecular Weight:	88.5 kDa
UniProt:	Q9NP80
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

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