

# Datasheet for ABIN3086487 PRRX1 Protein (AA 1-245) (Strep Tag)



Overview

Quantity:	250 µg
Target:	PRRX1
Protein Characteristics:	AA 1-245
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRRX1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Brand:	AliCE®
Sequence:	MTSSYGHVLE RQPALGGRLD SPGNLDTLQA KKNFSVSHLL DLEEAGDMVA AQADENVGEA
	GRSLLESPGL TSGSDTPQQD NDQLNSEEKK KRKQRRNRTT FNSSQLQALE RVFERTHYPD
	AFVREDLARR VNLTEARVQV WFQNRRAKFR RNERAMLANK NASLLKSYSG DVTAVEQPIV
	PRPAPRPTDY LSWGTASPYS AMATYSATCA NNSPAQGINM ANSIANLRLK AKEYSLQRNQ
	VPTVN
	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.

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- 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.
- 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:	PRRX1
Alternative Name:	PRRX1 (PRRX1 Products)

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# Target Details

Background:	Paired mesoderm homeobox protein 1 (Homeobox protein PHOX1) (Paired-related homeobox
	protein 1) (PRX-1),FUNCTION: Master transcription factor of stromal fibroblasts for
	myofibroblastic lineage progression. Orchestrates the functional drift of fibroblasts into
	myofibroblastic phenotype via TGF-beta signaling by remodeling a super-enhancer landscape.
	Through this function, plays an essential role in wound healing process (PubMed:35589735).
	Acts as a transcriptional regulator of muscle creatine kinase (MCK) and so has a role in the
	establishment of diverse mesodermal muscle types. The protein binds to an A/T-rich element
	in the muscle creatine enhancer (By similarity). May play a role in homeostasis and
	regeneration of bone, white adipose tissue and derm (By similarity).
	{EC0:0000250 UniProtKB:P63013, EC0:0000269 PubMed:35589735}., FUNCTION: [Isoform 1]:
	Transcriptional activator, when transfected in fibroblastic or myoblastic cell lines. This activity
	may be masked by the C-terminal OAR domain. {ECO:0000250 UniProtKB:P63013}., FUNCTION:
	[Isoform 2]: Transcriptional repressor, when transfected in fibroblastic or myoblastic cell lines.
	{ECO:0000250 UniProtKB:P63013}.
Molecular Weight:	27.3 kDa

UniProt: P54821

## **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

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## Handling

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