

Datasheet for ABIN7550998  
**PRRX1 Protein (AA 1-245) (His tag)**



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## Overview

Quantity:	1 mg
Target:	PRRX1
Protein Characteristics:	AA 1-245
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRRX1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat PRRX1 Protein expressed in mammalien cells.
Sequence:	<p>MTSSYGHVLE RQPALGGRLD SPGNLDTLQA KKNFSVSHLL DLEEAGDMVA AQADENVGEA            GRSLLSPGL TSGSDTPQQD NDQLNSEEKK KRKQRRNRRTT FNSSQLQALE RVFERTHYPD            AFVREDLARR VNLTEARVQV WFQNRRAKFR RNERAMLANK NASLLKSYSG DVTAVEQPIV            PRPAPRPTDY LSWGASPYS AMATYSATCA NNSPAQGINM ANSIANLRLK AKEYSLQRNQ            VPTVN <b>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.</b></p>
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 mammalien cells and purified in one-step affinity chromatography</li> <li>• The optimized expression system ensures reliability for intracellular, secreted and</li> </ul>

## Product Details

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transmembrane proteins.

- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

Grade: custom-made

## Target Details

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Target: PRRX1

Alternative Name: PRRX1 ([PRRX1 Products](#))

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). {ECO:0000250|UniProtKB:P63013, ECO: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}.

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Molecular Weight: 27.3 kDa

UniProt: [P54821](#)

## Application Details

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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.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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