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Datasheet for ABIN3135730

**PPRC1 Protein (AA 1-1644) (Strep Tag)**

## Overview

Quantity:	1 mg
Target:	PPRC1
Protein Characteristics:	AA 1-1644
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PPRC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence:	MAARRGRRDR VAPPPTGGPG PDPGGGVRGG SWASRSQAPY GTGGSVSAAE QVHEEGNDSS FVSLRLGPS LREKDLEMEE LILQDETLLE TMQSYMDASL ISLIEDFGES RLSLEDQNE SLLTALTEIL DNADSENLS FDTIPDSELL VSPRESSSLH KLLNLSRTTP ERDLITPIDP LGPSTGSSRV SGVEVPLADS PWDFSPPPFL ETSSPKLPSW RPSRPRPRWG QSPPPQQRSD GEEEEVAGF SGQMLAGKLD NSVNNVLDFF MHLACPEEEG TAEGADAPAS APGDESISSL SELVAMHPY CLPNLTHLAS LEGELEGQAD ADADELTLPE GCVVLEIVGQ AATTGDDLEI PVVVRQIPSG SQSVLLDESL GSSPALQLLM PTMESETEAA VPEVAPCPDE ELPSSACLL EPREIMESLT PKEPQSLPAS ASQGSQKVPR KGRKKKNKEQ PTACVEACTR RLRSSSRGQS TVSAEVNSQA GSSQKQPQEE LQREAAALQS RGKPRAWARA WAAALEKTGS ENLERSAGQD SPAEDALDL CPKLLETSA NPTLSLNSA QADSMVDSV EGDSPAVGNA APGDQASSGT ELVGSLPVGP NLTSPVLADK KGIEPAVAIP TSDNLSPADV LANTVAADPV PNDPAPADPV LVKCRPTDPR RAAAAAAAAA QGSRPSLQSA DHPKVVSPG KDVVGPLKVE GSTSATTQEA
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KPRPLSLSEY RQRRQQRQTE AEDRNSQPPV VGKWPSLPET PTELADIPCL VPSAPARKTA  
PQRSPIAVPE TVSVGSNPVS PTPEPSASKL MVSTHSEQVS SHEMPLAVRP PPPPLPSVSP  
AGPIPSTVPA PLPPFPSPV PLLPLPSGGH GVPRLPPPPL QPPGLPVSMR QMPPDPYTQY  
APVPPWSCYP SVSPPGYSCL PPPPTMPIVS GTPGTYAVPP TCNVPWVPPP APVSPYSSSC  
AYGSLGWGPG LQQPPFWSTV SPPPLSSVPT GRAVPPTPVE PSGDPAGPPE DVLPGPVTPS  
LSSGPASPAA PPVEPTKPEA QPVPVSPQPK HKVSTLVQSP QIKAPPTLST EGVVFEESVS  
ERLKSETQEN RPKEKPISTA IKSVPVPKQS AVAKLPAVHP ARLRKLSTFLP TPRAQGPEDV  
VQAFISEIGI EASDLSSLLE QFEKSEAKKE CPLPASADSL AVGNNGIDIP QEKKPLDRLQ  
APELANVAGL TPPATPPHQL WKPLAAVSL AKAKSPKSTA QEGTLKPEGI TEAKPPATAC  
LQEGAHSPSP VHVGS GDHDY CVRSRTPPKR MPALVISEVG SRWNVQRHGD ITIKPVLSLG  
SAAPPLPCTA TSQEPLDHRT SVEQADPSAP CFAPSTLLSP EASPCRSEMN ARTPPEPSDK  
QQSMRCYRKA CRSVSPSSRG WQGRRGRSSR SVSSGSSRTS EASSSSSVSS SSRSRSRSR  
RSFSPPNKRW RRSSCSSSGR SRRCSSSSSS SSSSSSCSSR SRSPSVSPCR RSDRRRRYSS  
YRANDHYQRQ RVLQKERAIE ERRVFIGKI PGRMTRSELK QRFSVFGEIE ECTIHFVRQG  
DNYGFVTYRY AEEFAAIES GHKLRQADEQ PFDLCFGGRR QFCKRSYSDL DSNREDFDPA  
PVKSKFDSL DFTLLKQAQK NLRR

**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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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

## Product Details

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 in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):  1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.
Purity:	≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

Target:	PPRC1
Alternative Name:	Pprc1 ( <a href="#">PPRC1 Products</a> )
Background:	Peroxisome proliferator-activated receptor gamma coactivator-related protein 1 (PGC-1-related coactivator) (PRC),FUNCTION: Acts as a coactivator during transcriptional activation of nuclear genes related to mitochondrial biogenesis and cell growth. Involved in the transcription coactivation of CREB and NRF1 target genes (By similarity). {ECO:0000250}.
Molecular Weight:	175.1 kDa

## Target Details

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UniProt: [Q6NZN1](#)

## 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.

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

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)