

Datasheet for ABIN3094758

PRDM15 Protein (AA 1-1507) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	PRDM15
Protein Characteristics:	AA 1-1507
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRDM15 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MPRRRPPASG AAQFPERIAT RSPDPIPLCT FQRQPRAAPV QPPCRLFFVT FAGCGHRWRS ESKPGWISRS RSGIALRAAR PPGSSPPRPA APRPPPPGGV VAEAPGDVVI PRPRVQPMRV ARGGPWTPNP AFREAESWSQ IGNQRVSEQL LETSLGNEVS DTEPLSPASA GLRRNPALPP GPFAQNFSWG NQENLPPALG KIANGGGTGA GKAECGYETE SHLLEPHEIP LNVNTHKFSD CEFPYEFCTV CFSPFKLLGM SGVEGVWNQH SRSASMHTFL NHSATGIREA GCRKDMPVSE MAEDGSEEIM FIWCEDCSQY HDSECELPGLP VVMVKDSFVL SRARSWPASG HVHTQAGQGM RGYEDRDRAD PQQLP EAVPA GLVRRLSGQQ LPCRSTLTWG RLCHLVAQGR SSLPPNLEIR RLEDGAEGVF AITQLVKRTQ FGPFESRRVA KWEKESAFPL KVFQKDGHPV CFDTSNEDDC NWMMLVRPAA EAEHQNL TAY QHGSDVYFTT SRDIPPGTEL RVWYAAFYAK KMDKPMLKQA GSGVHAAGTP ENSAPVESEP SQWACKVCSA TFLELQLLNE HLLGHLEQAK SLPPGSQSEA AAPEKEQDTP RGEPPAVPES ENVATKEQKK KPRRGRKPKV SKAEQPLVIV EDKEPTEQVA EIITEVPPDE PVSATPDERI MELVLGKLAT TTTDTSSVPK FTHHQNTIT LKRSLILSSR</p>
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HGIRRKLIKQ LGEHKRVYQC NICKSKIFQNS SNLSRHRVRSR GDKLFKCEEC AKLFSRKESL
KQHVSYKHSR NEVDGEYRYS CGTCEKTFRI ESALEFHNCR TDDKTFQCEM CFRFFSTNSN
LSKHKKKHGD KKFACEVCSK MFYRKDVMLD HQRRHLEGVR RVKREDLEAG GENLVRYKKE
PSGCPVCGKV FSCRSNMNKH LLTHGDKKYT CEICGRKFFR VDVLRDHIHV HFKDIALMDD
HQREEFIGKI GISSEENDDN SDESADSEPH KYSCKRCQLT FGRGKEYLKH IMEVHKEKGY
GCSICNRRFA LKATYHAHMY IHRENLPDPN VQKYIHPCEI CGRIFNSIGN LERHKLIHTG
VKSHACEQCG KSFARKDMLK EHMVRVHDNVR EYLCAECGKG MKTKHALRHH MKLHKGKEY
ECKECHRRFA QKVNMLKHCK RHTGIKDFMC ELCGKTFSER NTMETHKLIH TVGKQWTCVS
CDKKYVTEYM LQKHVQLTHD KVEAQSCQLC GTKVSTRASM SRHMRRKHPE VLAVRIDDL
HLPETTTIDA SSIGIVQPEL TLEQEDLAEG KHGKAAKRSR KRKQKPEEEA GAPVPEDATF
SEYSEKETEF TGSVGDETNS AVQSIQVWV TLGDPNVTTT SSSVGLTNIT VTPITTAAT
QFTNLQPVAV GHLTTPERQL QLDNSILTVT FDTVSGSAML HNRQNDVQIH PQPEASNPQS
VAHFINTLTL VNSITPLGSQ LSDQHPLTWR AVPQTDVLP SPPQAPPQQA AQPQVQAEQQ
QQQMYSY

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 produce even the most difficult-to-express proteins, including those that require post-translational modifications.

Product Details

- 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:	PRDM15
Alternative Name:	PRDM15 (PRDM15 Products)
Background:	PR domain zinc finger protein 15 (EC 2.1.1.-) (PR domain-containing protein 15) (Zinc finger protein 298),FUNCTION: Sequence-specific DNA-binding transcriptional regulator. Plays a role as a molecular node in a transcriptional network regulating embryonic development and cell fate decision. Stimulates the expression of upstream key transcriptional activators and repressors of the Wnt/beta-catenin and MAPK/ERK pathways, respectively, that are essential for naive pluripotency and self-renewal maintenance of embryonic stem cells (ESCs). Specifically promotes SPRY1 and RSP01 transcription activation through recognition and direct

Target Details

binding of a specific DNA sequence in their promoter regions. Involved in early embryo development (By similarity). Also plays a role in induced pluripotent stem cells (iPSCs) reprogramming (PubMed:28740264). {ECO:0000250|UniProtKB:E9Q8T2, ECO:0000269|PubMed:28740264}.

Molecular Weight: 169.3 kDa

UniProt: [P57071](#)

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. 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)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process