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## Datasheet for ABIN3094771 PREX2 Protein (AA 1-1606) (Strep Tag)



1 Image

Overview

Quantity:	1 mg
Target:	PREX2 (DEPDC2)
Protein Characteristics:	AA 1-1606
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PREX2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

## Product Details

Sequence:	MSEDSRGDSR AESAKDLEKQ LRLRVCVLSE LQKTERDYVG TLEFLVSAFL HRMNQCAASK
	VDKNVTEETV KMLFSNIEDI LAVHKEFLKV VEECLHPEPN AQQEVGTCFL HFKDKFRIYD
	EYCSNHEKAQ KLLLELNKIR TIRTFLLNCM LLGGRKNTDV PLEGYLVTPI QRICKYPLIL
	KELLKRTPRK HSDYAAVMEA LQAMKAVCSN INEAKRQMEK LEVLEEWQSH IEGWEGSNIT
	DTCTEMLMCG VLLKISSGNI QERVFFLFDN LLVYCKRKHR RLKNSKASTD GHRYLFRGRI
	NTEVMEVENV DDGTADFHSS GHIVVNGWKI HNTAKNKWFV CMAKTPEEKH EWFEAILKER
	ERRKGLKLGM EQDTWVMISE QGEKLYKMMC RQGNLIKDRK RKLTTFPKCF LGSEFVSWLL
	EIGEIHRPEE GVHLGQALLE NGIIHHVTDK HQFKPEQMLY RFRYDDGTFY PRNEMQDVIS
	KGVRLYCRLH SLFTPVIRDK DYHLRTYKSV VMANKLIDWL IAQGDCRTRE EAMIFGVGLC
	DNGFMHHVLE KSEFKDEPLL FRFFSDEEME GSNMKHRLMK HDLKVVENVI AKSLLIKSNE
	GSYGFGLEDK NKVPIIKLVE KGSNAEMAGM EVGKKIFAIN GDLVFMRPFN EVDCFLKSCL
	NSRKPLRVLV STKPRETVKI PDSADGLGFQ IRGFGPSVVH AVGRGTVAAA AGLHPGQCII

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Characteristics:

Key Benefits:

have a special request, please contact us.

- 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-

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	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:	PREX2 (DEPDC2)
Alternative Name:	PREX2 (DEPDC2 Products)
Background:	Phosphatidylinositol 3,4,5-trisphosphate-dependent Rac exchanger 2 protein (P-Rex2)
	(PtdIns(3,4,5)-dependent Rac exchanger 2) (DEP domain-containing protein 2),FUNCTION:
	Functions as a RAC1 guanine nucleotide exchange factor (GEF), activating Rac proteins by
	exchanging bound GDP for free GTP. Its activity is synergistically activated by
	phosphatidylinositol 3,4,5-trisphosphate and the beta gamma subunits of heterotrimeric G
	protein. Mediates the activation of RAC1 in a PI3K-dependent manner. May be an important
	mediator of Rac signaling, acting directly downstream of both G protein-coupled receptors and

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	phosphoinositide 3-kinase. {ECO:0000269 PubMed:15304342,
	ECO:0000269 PubMed:15304343, ECO:0000269 PubMed:15897194}.
Molecular Weight:	182.6 kDa
UniProt:	Q70Z35
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)

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**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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