

Datasheet for ABIN3084711

NPAS1 Protein (AA 1-590) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	NPAS1
Protein Characteristics:	AA 1-590
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NPAS1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAAPYPGSGG GSEVKCVGGR GASVPWDFLP GLMVKAPSGP CLQAQRKEKS RNAARSRRGK ENLEFFELAK LLPLPGAIS QLDKASIVRL SVTYLRLRRF AALGAPPWGL RAAGPPAGLA PGRRGPAALV SEVFEQHLGG HILQSLDGFV FALNQEKGFL YISETVSIYL GLSQVEMTGS SVFDYIHPGD HSEVLEQLGL RTPTGPPPTP PSVSSSSSSSS SSLADTPEIE ASLTKVPPSS LVQERSFFVR MKSTLTKRGL HVKASGYKVI HVTGRLRAHA LGLVALGHTL PPAPLAELPL HGHMIVFRLS LGLTILACES RVSDHMDLGP SELVGRSCYQ FVHGQDATRI RQSHVDLLDK GQVMTGYRW LQRAGGFVWL QSVATVAGSG KSPGEHHVLW VSHVLSQAEG GQTPLDAFQL PASVACEEAS SPGPEPTEPE PPTGKQAAP AENEAPQTQG KRIKVEPGPR ETKGSEDSGD EDPSSHPATP RPEFTSVIRA GVLKQDPVRP WGLAPPGDPP PTLHAGFLP PVVRGLCTPG TIRYGPAELG LVYPHLQRLG PGPALPEAFY PPLGLPYPGP AGTRLPRKGD

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 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:	NPAS1
Alternative Name:	NPAS1 (NPAS1 Products)
Background:	Neuronal PAS domain-containing protein 1 (Neuronal PAS1) (Basic-helix-loop-helix-PAS protein MOP5) (Class E basic helix-loop-helix protein 11) (bHLHe11) (Member of PAS protein 5) (PAS domain-containing protein 5),FUNCTION: May control regulatory pathways relevant to schizophrenia and to psychotic illness. May play a role in late central nervous system development by modulating EPO expression in response to cellular oxygen level (By similarity). Forms a heterodimer that binds core DNA sequence 5'-TACGTG-3' within the hypoxia response element (HRE) leading to transcriptional repression on its target gene TH (By similarity). {ECO:0000250, ECO:0000250 UniProtKB:P97459}.
Molecular Weight:	62.7 kDa
UniProt:	Q99742

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

Handling

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

Handling

	Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months