Datasheet for ABIN3126240

Paxx Protein (AA 1-205) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Paxx
Protein Characteristics:	AA 1-205
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Paxx protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAPPLLSLPL CILPPGSGSP RLVCYCERDS GGDGDRDDFN LYVTDAAELW STCFSPDSLA RLKARFGLSG AEDIHSRFRA ACQQQAVTVS LQEDRALITL SGDTPALAFD LSKVPSPEAA PRLQALTLSL AEHVCNLERR LAAAEETITS PKKNTQPAGT QFLPELDHQR GSSGPGVRRR CPGESLINPG FKSKKPAAGV DFDET **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:	Paxx
Alternative Name:	Paxx
Background:	Protein PAXX (Paralog of XRCC4 and XLF),FUNCTION: Non-essential DNA repair protein

Target Details

	involved in DNA non-homologous end joining (NHEJ), participates in double-strand break (DSB) repair and V(D)J recombination (PubMed:27601299, PubMed:27798842, PubMed:27601633, PubMed:27830975, PubMed:28051062, PubMed:29077092). May act as a scaffold required for accumulation of the Ku heterodimer, composed of XRCC5/Ku80 and XRCC6/Ku70, at double-strand break sites and promote the assembly and/or stability of the NHEJ machinery (PubMed:28051062). Involved in NHEJ by promoting the ligation of blunt-ended DNA ends (By similarity). Together with NHEJ1/XLF, collaborates with DNA polymerase lambda (POLL) to promote joining of non-cohesive DNA ends (By similarity). Constitutes a non-essential component of classical NHEJ: has a complementary but distinct function with NHEJ1/XLF in DNA repair (PubMed:27601299, PubMed:27798842, PubMed:27830975, PubMed:28051062). {ECO:0000250|UniProtKB:Q9BUH6, ECO:0000269|PubMed:27601299, ECO:0000269|PubMed:27601633, ECO:0000269|PubMed:27798842, ECO:0000269|PubMed:27830975, ECO:0000269|PubMed:28051062, ECO:0000269|PubMed:29077092}.
Molecular Weight:	22.0 kDa
UniProt:	Q8K0Y7

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. 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