

Datasheet for ABIN3094753

## POTEF Protein (AA 1-1075) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	POTEF
Protein Characteristics:	AA 1-1075
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This POTEF protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MVVEVDSMPA ASSVKKPFGL RSKMGKWCCR CFPCCRESGK SNVGTSGDHD DSAMKTLRSK</p> <p>MGKWCRHCFP CCRGSGKSNV GASGDHDDSA MKTLRNKMGK WCCHCFPCR GSSKSKVGAW</p> <p>GDYDDSAFME PRYHVRGEDL DKLHRAAWWG KVPRKDLIVM LRDTDVNKQD KQKRTALHLA</p> <p>SANGNSEVVK LLLDRRCQLN VLDNKKRTAL IKAVQCQEDE CALMLLEHGT DPNIPDEYGN</p> <p>TTLHYAIYNE DKLMKALLL YGADIESKNK HGLTPLLLGV HEQKQQVVKF LIKKKANLNA</p> <p>LDRYGRALI LAVCCGSASI VSLLEQNIQ VSSQDLGQT AREYAVSSHH HVICQLLSDY</p> <p>KEQMLKISS ENSNPEQDLK LTSEESQRF KGSSENSQPEK MSQEPEINKD GDREVEEEMK</p> <p>KHESNNVGLL ENLTNGVTAG NGDNGLIPQR KSRTPENQQF PDNESEEYHR ICELLSDYKE</p> <p>KQMPKYSEN SNPEQDLKLT SEESQRLKG SENGQPEKRS QEPEINKDGD RELENFMAIE</p> <p>EMKKHRSTHV GFPENLTNGA TAGNGDDGLI PPRKSRTPEP QQFPDTENEE YHSDEQNDTQ</p> <p>KQFCEEQNTG ILHDEILIHE EKQIEVVEKM NSELSLCKK EKDILHENST LREEIAMLRL</p>

ELDTMKHQSQ LREKKYLEDI ESVKKRNDNL LKALQLNELT MDDDTAVLVI DNGSGMCKAG  
FAGDDAPRAV FPSIVGRPRQ QGMMGGMHQK ESYVGKEAQS KRGILTLKYP MEHGIITNWD  
DMEKIWHHTF YNELRVAPEE HPVLLTEATL NPKANREKMT QIMFETFNTP AMYVAIQAVL  
SLYTSGRTTG IVMDSGDGVHTVPIYEGNA LPHATLRLDL AGRELPDYLM KILTEHGYRF  
TTMAEREIVR DIKEKLCYVA LDFAQEMATV ASSSSLEKSY ELPDGQVITI GNERFRCPEA  
LFQPCFLGME SCGIHETTFN SIMKSDVDIR KDLYTNTVLS GGTTMYPGMA HRMQKEIAAL  
APSMMKIRII APPKRKYSVW VGGSILASLS TFQQMWISKQ EYDESGPSIV HRKCL

**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.**

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### 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.

## Product Details

- 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:	POTEF
Alternative Name:	POTEF ( <a href="#">POTEF Products</a> )
Background:	POTE ankyrin domain family member F (ANKRD26-like family C member 1B) (Chimeric POTE-actin protein)
Molecular Weight:	121.4 kDa
UniProt:	<a href="#">A5A3E0</a>

## 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

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Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months