

Datasheet for ABIN3086783

CTPS2 Protein (AA 1-586) (Strep Tag)



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Quantity:	250 μg
Target:	CTPS2
Protein Characteristics:	AA 1-586
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CTPS2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details		
Brand:	AliCE®	
Sequence:	MKYILVTGGV ISGIGKGIIA SSIGTILKSC GLRVTAIKID PYINIDAGTF SPYEHGEVFV LNDGGEVDLD	
	LGNYERFLDI NLYKDNNITT GKIYQHVINK ERRGDYLGKT VQVVPHITDA VQEWVMNQAK	
	VPVDGNKEEP QICVIELGGT IGDIEGMPFV EAFRQFQFKA KRENFCNIHV SLVPQLSATG	
	EQKTKPTQNS VRALRGLGLS PDLIVCRSST PIEMAVKEKI SMFCHVNPEQ VICIHDVSST	
	YRVPVLLEEQ SIVKYFKERL HLPIGDSASN LLFKWRNMAD RYERLQKICS IALVGKYTKL	
	RDCYASVFKA LEHSALAINH KLNLMYIDSI DLEKITETED PVKFHEAWQK LCKADGILVP	
	GGFGIRGTLG KLQAISWART KKIPFLGVCL GMQLAVIEFA RNCLNLKDAD STEFRPNAPV	
	PLVIDMPEHN PGNLGGTMRL GIRRTVFKTE NSILRKLYGD VPFIEERHRH RFEVNPNLIK	
	QFEQNDLSFV GQDVDGDRME IIELANHPYF VGVQFHPEFS SRPMKPSPPY LGLLLAATGN	
	LNAYLQQGCK LSSSDRYSDA SDDSFSEPRI AELEIS	
	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 posttranslational 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

rarget Details		
Target:	CTPS2	
Alternative Name:	CTPS2 (CTPS2 Products)	
Background:	CTP synthase 2 (EC 6.3.4.2) (CTP synthetase 2) (UTPammonia ligase 2),FUNCTION: Catalyz the ATP-dependent amination of UTP to CTP with either L-glutamine or ammonia as the sour of nitrogen. Constitutes the rate-limiting enzyme in the synthesis of cytosine nucleotides. {ECO:0000269 PubMed:10899599, ECO:0000269 PubMed:16179339}.	
Molecular Weight:	65.7 kDa	
UniProt:	Q9NRF8	
Pathways:	Ribonucleoside Biosynthetic Process	
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.	

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months