

Datasheet for ABIN3133641 CNGA1 Protein (AA 1-684) (Strep Tag)



Overview

Quantity:	250 µg
Target:	CNGA1
Protein Characteristics:	AA 1-684
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CNGA1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MKTNIINTWH SFVNIPNVIV PAIEKEIRRM ENGACSSFSD DDNGSLSEES ENEDSFFRSN
	SYKRRGPSQR EQHLPGTMAL FNVNNSSNKD QEPKEKKKKK KEKKSKADDK NENKKDPEKK
	KKKEKEKEKK KKEEKTKEKK EEEKKEVVVI DPSGNTYYNW LFCITLPVMY NWTMIIARAC
	FDELQSDYLE YWLIFDYVSD VVYLADMFVR TRTGYLEQGL LVKDRMKLIE KYKANLQFKL
	DVLSVIPTDL LYIKFGWNYP EIRLNRLLRI SRMFEFFQRT ETRTNYPNIF RISNLVMYIV
	IIIHWNACVY YSISKAIGFG NDTWVYPDVN DPEFGRLARK YVYSLYWSTL TLTTIGETPP
	PVLDSEYIFV VVDFLIGVLI FATIVGNIGS MISNMNAARA EFQSRVDAIK QYMNFRNVSK
	DMEKRVIKWF DYLWTNKKTV DEREVLRYLP DKLRAEIAIN VHLDTLKKVR IFADCEAGLL
	VELVLKLQPQ VYSPGDYICK KGDIGREMYI IKEGKLAVVA DDGITQFVVL SDGSYFGEIS
	ILNIKGSKAG NRRTANIKSI GYSDLFCLSK DDLMEALTEY PDAKTMLEEK GRQILMKDGL
	LDINIANMGS DPKDLEEKVT RMEGSVDLLQ TRFARILAEY ESMQQKLKQR LTKVEKFLKP

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LIETEFSALE EPGGESELTE SLQD

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®).

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Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

l'arget Details	
Target:	CNGA1
Alternative Name:	Cnga1 (CNGA1 Products)
Background:	CGMP-gated cation channel alpha-1 (Cyclic nucleotide-gated cation channel 1) (Cyclic nucleotide-gated channel alpha-1) (CNG channel alpha-1) (CNG-1) (CNG1) (Cyclic nucleotide- gated channel, photoreceptor) (Rod photoreceptor cGMP-gated channel subunit alpha),FUNCTION: Subunit of the rod cyclic GMP-gated cation channel, which is involved in the final stage of the phototransduction pathway. When light hits rod photoreceptors, cGMP concentrations decrease causing rapid closure of CNGA1/CNGB1 channels and, therefore, hyperpolarization of the membrane potential. {ECO:0000250 UniProtKB:Q00194}.
Molecular Weight:	79.5 kDa
UniProt:	P29974
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling, Phototransduction, Asymmetric Protein Localization
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

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Application Details

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