

Datasheet for ABIN3114778

GARP Protein (AA 1-1251) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	GARP (CNGB1)
Protein Characteristics:	AA 1-1251
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GARP protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MLGWVQRVLP QPPGTPRKTK MQEEEEVEPE PEMEAEEVEPE PNPEEAETES ESMPPPEESFK</p> <p>EEEVAVADPS PQETKEAALT STISLRAQGA EISEMNSPSR RVLTWLMKGV EKVIPQPVHS</p> <p>ITEDPAQILG HGSTGDTGCT DEPNEALEAQ DTRPGLRLLL WLEQNLERVL PQPPKSSEVW</p> <p>RDEPAVATGA ASDPAPPGRP QEMGPKLQAR ETPSLPTPIP LQPKEEPKEA PAPEPQPGSQ</p> <p>AQTSSLPPTR DPARLVAWVL HRLEMALPQP VLHGKIGEQE PDSPGICDVQ TISILPGGQV</p> <p>EPDLVLEEVE PPWEDAHQDV STSPQGTEVV PAYEEENKAV EKMPRELSRI EEEKEDDEEEE</p> <p>EEEEEEEEEE EVTEVLLDSC VVSQVGVGQS EEDGTRPQST SDQKLWEEVG EEAKKEAEEK</p> <p>AKEEAEEVAE EEAKEPQDW AETKEEPEAE AEAASSGVPA TKQHPEVQVE DTDADSCPLM</p> <p>AEENPPSTVL PPPSPAKSDT LIVPSSASGT HRKKLPSEDD EAEELKALSP AESPVVAWSD</p> <p>PTTPKDTDGQ DRAASTASTN SAIINDRLQE LVKLFKERTK KVKEKLIDPD VTSDEESPKP</p> <p>SPAKKAPEPA PDTKPAAEAP VEEHYCDML CCKFKHRPWK KYQFPQSIDP LTNLMYVLWL</p>

FFVVMAWNWN CWLIPVRWAF PYQTPDNIHH WLLMDYLCDL IYFLDITVFQ TRLQFVRGGD
IITDKKDMRN NYLKSRRFKM DLLSLLPLDF LYLKVGVNPL LRLPRCLKYM AFFEFNSRLE
SILSKAYVYR VIRTAYLLY SLHLNSCLYY WASAYQGLGS THWVYDGVGN SYIRCYYFAV
KTLITIGGLP DPKTLFEIVF QLLNYFTGVF AFSVMIGQMR DVVGAATAGQ TYRSCMDST
VKYMNIFYKIP KSVQNRVKTW YEYTWHSQGM LDESELMVQL PDKMRDLAI DVNYNIVSKV
ALFQGCQRQM IFDMLKRLRS VVYLPNDYVC KKGEIGREMY IIQAGQVQVL GGPDGKSVLV
TLKAGSVFGE ISLLAVGGGN RRTANVVAHG FTNLFILDKK DLNEILVHYP ESQKLLRKA
RRMLRSNNKP KEEKSVLILP PRAGTPKLFN AALAMTGKMG GKGAKGGKLA HLRARLKELA
ALEAAAKQQE LVEQAKSSQD VKGEEGSAAP DQHTHPKEAA TDPPAPRTPP EPPGSPPSSP
PPASLGRPEG EEEGPAEPPE HSVRICMSPG PEPGEQILSV KMPEEREKA E

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!

Product Details

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:	GARP (CNGB1)
Alternative Name:	CNGB1 (CNGB1 Products)
Background:	Cyclic nucleotide-gated cation channel beta-1 (Cyclic nucleotide-gated cation channel 4) (CNG channel 4) (CNG-4) (CNG4) (Cyclic nucleotide-gated cation channel gamma) (Cyclic nucleotide-gated cation channel modulatory subunit) (Cyclic nucleotide-gated channel beta-1) (CNG channel beta-1) (Glutamic acid-rich protein) (GARP),FUNCTION: Subunit of cyclic nucleotide-gated (CNG) channels, nonselective cation channels, which play important roles in both visual and olfactory signal transduction. When associated with CNGA1, it is involved in the regulation of ion flow into the rod photoreceptor outer segment (ROS), in response to light-induced alteration of the levels of intracellular cGMP., FUNCTION: Isoform GARP2 is a high affinity rod photoreceptor phosphodiesterase (PDE6)-binding protein that modulates its catalytic properties: it is a regulator of spontaneous activation of rod PDE6, thereby serving to lower rod photoreceptor 'dark noise' and allowing these sensory cells to operate at the single photon detection limit.
Molecular Weight:	139.7 kDa
UniProt:	Q14028
Pathways:	Regulation of G-Protein Coupled Receptor Protein Signaling , Phototransduction

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
--------------------	---

Application Details

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