

Datasheet for ABIN3119376 **HCN4 Protein (AA 1-1203) (Strep Tag)**



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Quantity:	250 μg
Target:	HCN4
Protein Characteristics:	AA 1-1203
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This HCN4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

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Product Details	duct Details		
Brand:	AliCE®		
Sequence:	MDKLPPSMRK RLYSLPQQVG AKAWIMDEEE DAEEEGAGGR QDPSRRSIRL RPLPSPSPSA		
	AAGGTESRSS ALGAADSEGP ARGAGKSSTN GDCRRFRGSL ASLGSRGGGS GGTGSGSSHG		
	HLHDSAEERR LIAEGDASPG EDRTPPGLAA EPERPGASAQ PAASPPPPQQ PPQPASASCE		
	QPSVDTAIKV EGGAAAGDQI LPEAEVRLGQ AGFMQRQFGA MLQPGVNKFS LRMFGSQKAV		
	EREQERVKSA GFWIIHPYSD FRFYWDLTML LLMVGNLIII PVGITFFKDE NTTPWIVFNV		
	VSDTFFLIDL VLNFRTGIVV EDNTEIILDP QRIKMKYLKS WFMVDFISSI PVDYIFLIVE TRIDSEVYKT		
	ARALRIVRFT KILSLLRLLR LSRLIRYIHQ WEEIFHMTYD LASAVVRIVN LIGMMLLLCH		
	WDGCLQFLVP MLQDFPDDCW VSINNMVNNS WGKQYSYALF KAMSHMLCIG YGRQAPVGMS		
	DVWLTMLSMI VGATCYAMFI GHATALIQSL DSSRRQYQEK YKQVEQYMSF HKLPPDTRQR		
	IHDYYEHRYQ GKMFDEESIL GELSEPLREE IINFNCRKLV ASMPLFANAD PNFVTSMLTK		
	LRFEVFQPGD YIIREGTIGK KMYFIQHGVV SVLTKGNKET KLADGSYFGE ICLLTRGRRT		

ASVRADTYCR LYSLSVDNFN EVLEEYPMMR RAFETVALDR LDRIGKKNSI LLHKVQHDLN SGVFNYQENE IIQQIVQHDR EMAHCAHRVQ AAASATPTPT PVIWTPLIQA PLQAAAATTS VAIALTHHPR LPAAIFRPPP GSGLGNLGAG QTPRHLKRLQ SLIPSALGSA SPASSPSQVD TPSSSSFHIQ QLAGFSAPAG LSPLLPSSSS SPPPGACGSP SAPTPSAGVA ATTIAGFGHF HKALGGSLSS SDSPLLTPLQ PGARSPQAAQ PSPAPPGARG GLGLPEHFLP PPPSSRSPSS SPGQLGQPPG ELSLGLATGP LSTPETPPRQ PEPPSLVAGA SGGASPVGFT PRGGLSPPGH SPGPPRTFPS APPRASGSHG SLLLPPASSP PPPQVPQRRG TPPLTPGRLT QDLKLISASQ PALPQDGAQT LRRASPHSSG ESMAAFPLFP RAGGGSGGSG SSGGLGPPGR PYGAIPGQHV TLPRKTSSGS LPPPLSLFGA RATSSGGPPL TAGPQREPGA RPEPVRSKLP SNL

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®). > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC). Purity: Grade: custom-made **Target Details** HCN4 Target: Alternative Name: HCN4 (HCN4 Products) Background: Potassium/sodium hyperpolarization-activated cyclic nucleotide-gated channel 4,FUNCTION: Hyperpolarization-activated ion channel with very slow activation and inactivation exhibiting weak selectivity for potassium over sodium ions. Contributes to the native pacemaker currents in heart (If) that regulate the rhythm of heart beat. May contribute to the native pacemaker currents in neurons (Ih). May mediate responses to sour stimuli. {ECO:0000269|PubMed:10228147, ECO:0000269|PubMed:10430953, ECO:0000269|PubMed:16407510, ECO:0000269|PubMed:19165230, ECO:0000269|PubMed:20829353}. Molecular Weight: 129.0 kDa UniProt: Q9Y3Q4 **Application Details** In addition to the applications listed above we expect the protein to work for functional studies **Application Notes:** 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

even the most difficult-to-express proteins, including those that require post-translational modifications.

Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

Application Details

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	