

## Datasheet for ABIN3114774 KCNC3 Protein (AA 1-757) (Strep Tag)



Overview

Quantity:	250 µg
Target:	KCNC3
Protein Characteristics:	AA 1-757
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KCNC3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	MLSSVCVSSF RGRQGASKQQ PAPPPQPPES PPPPPLPPQQ QQPAQPGPAA SPAGPPAPRG
	PGDRRAEPCP GLPAAAMGRH GGGGGDSGKI VINVGGVRHE TYRSTLRTLP GTRLAGLTEP
	EAAARFDYDP GADEFFFDRH PGVFAYVLNY YRTGKLHCPA DVCGPLFEEE LGFWGIDETD
	VEACCWMTYR QHRDAEEALD SFEAPDPAGA ANAANAAGAH DGGLDDEAGA GGGGLDGAGG
	ELKRLCFQDA GGGAGGPPGG AGGAGGTWWR RWQPRVWALF EDPYSSRAAR YVAFASLFFI
	LISITTFCLE THEGFIHISN KTVTQASPIP GAPPENITNV EVETEPFLTY VEGVCVVWFT
	FEFLMRITFC PDKVEFLKSS LNIIDCVAIL PFYLEVGLSG LSSKAAKDVL GFLRVVRFVR
	ILRIFKLTRH FVGLRVLGHT LRASTNEFLL LIIFLALGVL IFATMIYYAE RIGADPDDIL GSNHTYFKNI
	PIGFWWAVVT MTTLGYGDMY PKTWSGMLVG ALCALAGVLT IAMPVPVIVN NFGMYYSLAM
	AKQKLPKKKN KHIPRPPQPG SPNYCKPDPP PPPPPHPHHG SGGISPPPPI TPPSMGVTVA
	GAYPAGPHTH PGLLRGGAGG LGIMGLPPLP APGEPCPLAQ EEVIEINRAD PRPNGDPAAA

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### ALAHEDCPAI DQPAMSPEDK SPITPGSRGR YSRDRACFLL TDYAPSPDGS IRKATGAPPL PPQDWRKPGP PSFLPDLNAN AAAWISP

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

Target:	KCNC3
Alternative Name:	KCNC3 (KCNC3 Products)
Background:	Potassium voltage-gated channel subfamily C member 3 (KSHIIID) (Voltage-gated potassium
	channel subunit Kv3.3),FUNCTION: Voltage-gated potassium channel that plays an important
	role in the rapid repolarization of fast-firing brain neurons. The channel opens in response to the
	voltage difference across the membrane, forming a potassium-selective channel through which
	potassium ions pass in accordance with their electrochemical gradient. The channel displays
	rapid activation and inactivation kinetics (PubMed:10712820, PubMed:26997484,
	PubMed:22289912, PubMed:23734863, PubMed:16501573, PubMed:19953606,
	PubMed:21479265, PubMed:25756792). It plays a role in the regulation of the frequency, shape
	and duration of action potentials in Purkinje cells. Required for normal survival of cerebellar
	neurons, probably via its role in regulating the duration and frequency of action potentials that
	in turn regulate the activity of voltage-gated Ca(2+) channels and cellular Ca(2+) homeostasis
	(By similarity). Required for normal motor function (PubMed:23734863, PubMed:16501573,
	PubMed:19953606, PubMed:21479265, PubMed:25756792). Plays a role in the reorganization
	of the cortical actin cytoskeleton and the formation of actin veil structures in neuronal growth
	cones via its interaction with HAX1 and the Arp2/3 complex (PubMed:26997484).
	{ECO:0000250 UniProtKB:Q63959, ECO:0000269 PubMed:10712820,
	ECO:0000269 PubMed:16501573, ECO:0000269 PubMed:19953606,
	ECO:0000269 PubMed:21479265, ECO:0000269 PubMed:22289912,
	ECO:0000269 PubMed:23734863, ECO:0000269 PubMed:25756792,
	ECO:0000269 PubMed:26997484}.
Molecular Weight:	80.6 kDa
UniProt:	Q14003
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.

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### Application Details

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
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	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 <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