Datasheet for ABIN3118178 CATSPERB Protein (AA 1-1116) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	CATSPERB
Protein Characteristics:	AA 1-1116
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CATSPERB protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Sequence:	MESPLIYVSV LLLNIFEFSS GIVYNKDDTE KRFACSNKGF PQENEIIKLY LFLENLKIQC
	FFQTENEIAS KAMLSVFTSG GLAPSLGIMN STYNGIFHFN LTLFSDRILW LVDIPRENIT
	QSTDIAAVEE WLVRITLHHG LNIYATEGTL LDVIREPILQ WTPGDVIPES EISKLYPHVV
	DLKVTKCPCA NDVALLGFIV DTIVDGVYIG ITFGGFWHDY DTTWFNMTQT IYSQLQEEYE
	DLSLVDMVLT NHFLVILTSL GLFVSEDLRY PSRHSLSFSR ADFCGFERVD YVKGKLWYNE
	RCFANREHFE VDYVTVTFER NRTLSESSSC FYSQEPFLEW VPCLPHIFKG IKIFPTVLTF
	LVDQERGTGV YLFYNKVRKT AIASVSTLRN NEPNSQSKFP IFRFPSSFSS PVGMVFHPRS
	HFLYAYGNQI WLSVDGGNTF QLIANFHDDI IKKTFHSFYT SAITFVSQRG KVYSTKAGMG
	RYSAVGSVTE RIFTLYYDHL GFLHKLTLGR FEASGPPTAF GNSRNLFGQP PDMGFETALA
	PQHTSLDEII FFAYVPENEP QETIYSKKFG NIHYGKVIHS GKTGRAYIRK VLQHTTPKGF
	LSSVIAEMKE PFGLEEVNES SCLSSSLLIN KAGNVYKLTL DSQVVQALFE DTDIEKTVVL
	PGYSSFLITS ILDNKNALAI ATMPESAPNN MTFLKSTWFL YNFGQRNGRT WKIYSKPCNY

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Characteristics:	Key Benefits:
	have a special request, please contact us.
	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	QGIHPWRTFQ RWIRRNQEKF SSISLSELIH RSKSEE
	SELFHFRVTV ISGVTFCNLI EEFQIYVDEA PLPFPGHTLI AVATAVVLGG LIFIAFMFQL
	DGRVPLQSPY LVTVTEVNMR HNWKLKHTVP ENIKRMKQLV EPILGAAVYN PSGLNLSIKG
	MSKKTGKFKQ CANVSTREEC NCTKDQKFSH AVAFSDCREK VPRFKFPITQ YPVSLEIINE
	KFIPFEDWIS GVHKDSQGFN LIKTLPINYR PPSNMGIAIP LTDNFYHADP SKPIPRNMFH
	FDDTDSYVIT ISAASKVLHQ GSTSLAFIMW SASTECFVTT MVPTLKSSCS YLRSMHHIPS
	WFQHDDSPSL NIVKYIDLGN SYVLKAKVIR NAKGFRMLEI PLLTVFVGNP NLLEVTAEVT

- · Made in Germany from design to production by highly experienced protein experts.
- Protein expressed with ALICE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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:

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	<ul> <li>The concentration of our recombinant proteins is measured using the absorbance at 280nm.</li> <li>The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.</li> <li>We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.</li> </ul>
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System
	(ALiCE®):
	<ol> <li>In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li> </ol>
	<ol> <li>Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li> </ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

Target:	CATSPERB
Alternative Name:	CATSPERB (CATSPERB Products)
Background:	Cation channel sperm-associated auxiliary subunit beta (CatSper-beta),FUNCTION: Auxiliary component of the CatSper complex, a complex involved in sperm cell hyperactivation. Sperm cell hyperactivation is needed for sperm motility which is essential late in the preparation of sperm for fertilization. {EC0:0000250 UniProtKB:A2RTF1}.
Molecular Weight:	126.9 kDa
UniProt:	Q9H7T0
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

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Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)