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Datasheet for ABIN3090129 CACNB2 Protein (AA 1-660) (Strep Tag)





Overview

Quantity:	1 mg
Target:	CACNB2
Protein Characteristics:	AA 1-660
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CACNB2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	MVQRDMSKSP PTAAAAVAQE IQMELLENVA PAGALGAAAQ SYGKGARRKN RFKGSDGSTS
	SDTTSNSFVR QGSADSYTSR PSDSDVSLEE DREAVRREAE RQAQAQLEKA KTKPVAFAVR
	TNVSYSAAHE DDVPVPGMAI SFEAKDFLHV KEKFNNDWWI GRLVKEGCEI GFIPSPVKLE
	NMRLQHEQRA KQGKFYSSKS GGNSSSSLGD IVPSSRKSTP PSSAIDIDAT GLDAEENDIP
	ANHRSPKPSA NSVTSPHSKE KRMPFFKKTE HTPPYDVVPS MRPVVLVGPS LKGYEVTDMM
	QKALFDFLKH RFEGRISITR VTADISLAKR SVLNNPSKHA IIERSNTRSS LAEVQSEIER
	IFELARTLQL VVLDADTINH PAQLSKTSLA PIIVYVKISS PKVLQRLIKS RGKSQAKHLN
	VQMVAADKLA QCPPELFDVI LDENQLEDAC EHLADYLEAY WKATHPPSSS LPNPLLSRTL
	ATSSLPLSPT LASNSQGSQG DQRTDRSAPI RSASQAEEEP SVEPVKKSQH RSSSSAPHHN
	HRSGTSRGLS RQETFDSETQ ESRDSAYVEP KEDYSHDHVD HYASHRDHNH RDETHGSSDH
	RHRESRHRSR DVDREQDHNE CNKQRSRHKS KDRYCEKDGE VISKKRNEAG EWNRDVYIRQ
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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	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 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 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!
	 Concentration: The concentration of our recombinant proteins is measured using the absorbance at 280nm. The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer. We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):
	1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag

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through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and
Western blot.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)</td>Grade:Crystallography grade

Target Details

i en got 2 otemo	
Target:	CACNB2
Alternative Name:	CACNB2 (CACNB2 Products)
Background:	Voltage-dependent L-type calcium channel subunit beta-2 (CAB2) (Calcium channel voltage- dependent subunit beta 2) (Lambert-Eaton myasthenic syndrome antigen B) (MYSB),FUNCTION: Beta subunit of voltage-dependent calcium channels which contributes to the function of the calcium channel by increasing peak calcium current (By similarity). Plays a role in shifting voltage dependencies of activation and inactivation of the channel (By similarity) May modulate G protein inhibition (By similarity). May contribute to beta-adrenergic augmentation of Ca(2+) influx in cardiomyocytes, thereby regulating increases in heart rate and
	contractile force (PubMed:36424916). Involved in membrane targeting of the alpha-1 subunit CACNA1C (PubMed:17525370). {ECO:0000250 UniProtKB:Q8CC27, ECO:0000250 UniProtKB:Q8VGC3, ECO:0000269 PubMed:17525370, ECO:0000269 PubMed:36424916}.
Molecular Weight:	73.6 kDa
UniProt:	Q08289
Pathways:	Skeletal Muscle Fiber Development
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

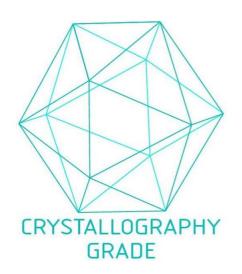
 Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce

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	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. 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.

Images

Expiry Date:



Unlimited (if stored properly)

Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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