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Datasheet for ABIN3089810

Ataxin 2 Protein (ATXN2) (AA 1-1313) (Strep Tag)

5 Images

Overview

Quantity:	1 mg
Target:	Ataxin 2 (ATXN2)
Protein Characteristics:	AA 1-1313
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Ataxin 2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence: MRSAAAAPRS PAVATESRRF AAARWPGWRS LQRPARRSGR GGGGAAPGPY PSAAPPPPGP
 GPPPSRQSSP PSASDCFGSN GNGGGAFRPG SRLLGLGGP PRPFVLLLLP LASPGAPPAA
 PTRASPLGAR ASPPRSGVSL ARPAPGCPRP ACEPVYGLPT MSLKPQQQQQ QQQQQQQQQQ
 QQQQQQQQPP PAAANVRKPG GSGLLASPAA APSPSSSSVS SSSATAPSSV VAATSGGGRP
 GLGRGRNSNK GLPQSTISFD GIYANMRMVH ILTSVVGSKC EVQVKNGGIY EGVFKTYSPK
 CDLVLDAAHE KSTESSGPK REEIMESILF KCSDFVVVQF KDMDSYAKR DAFTDSAISA
 KVNGEHKEKD LEPWDAGELT ANEELEALEN DVSNGWDPND MFRYNEENYG VVSTYDSSLS
 SYTVPLERDN SEEFLKREAR ANQLAEEIES SAQYKARVAL ENDDRSEEEK YTAVQRNSSE
 REGHSINTRE NKYIPPGQRN REVISWGSGR QNSPRMGQPG SGSMPSRSTS HTSDFNPNSG
 SDQRVVNGGV PWSPCPCSPS SRPPSRYQSG PNSLPPRAAT PTRPPSRPPS RPSRPPSHPS
 AHGSPAPVST MPKRMSSEGP PRMSPKAQRH PRNHRVSAGR GSISGLEFV SHNPPSEAAT
 PPVARTSPSG GTWSSVSGV PRLSPKTHRP RSPRQNSIGN TPSGPVLASP QAGIIPTEAV

AMPIPAASPT PASPASNRV TPSSEAKDSR LQDQRQNSPA GNKENIKPNE TSPSFSKAEN
KGISPVVSEH RKQIDDLKKF KNDFRLQPSS TSESMDQLLN KNREGEKSRD LIKDKIEPSA
KDSFIENSSS NCTSGSSKPN SPSISPSILS NTEHKRGPEV TSQGVQTSSP ACKQEKDDKE
EKKDAAEQVR KSTLNPNAKE FNPRSFSQPK PSTTPTSPRP QAQPSPSMVG HQQPTPVYTQ
PVCFAPNMMY PVPVSPGVQP LYPIPMTPMP VNQAKTYRAV PNMPQQRQDQ HHQSAMMHPA
SAAGPIIAAT PPAYSTQYVA YSPQQFPNQP LVQHVPHYQS QHPHVYSPVI QGNARMMAPP
THAQPLVSS SATQYGAHEQ THAMYACPKL PYNKETSFSF YFAISTGSLA QQYAHPNATL
HPHTPHPQPS ATPTGQQSQ HGGSHPA P VQHHQHAAQ ALHLASPQQQ SAIYHAGLAP
TPPSMTPASN TQSPQNSFPA AQQTVFTIHP SHVQPAYTNP PHMAHVPQAH VQSGMVPSPH
TAHAPMMLMT TQPPGGPQAA LAQSALQPIP VSTTAHFPYM THPSVQAHHQ QQL

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 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 -

Product Details

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®): <ol style="list-style-type: none">1. 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.2. 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.
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)

Target Details

Target:	Ataxin 2 (ATXN2)
Alternative Name:	ATXN2 (ATXN2 Products)
Background:	Ataxin-2 (Spinocerebellar ataxia type 2 protein) (Trinucleotide repeat-containing gene 13 protein),FUNCTION: Involved in EGFR trafficking, acting as negative regulator of endocytic EGFR internalization at the plasma membrane. {ECO:0000269 PubMed:18602463}.
Molecular Weight:	140.3 kDa
UniProt:	Q99700
Pathways:	Ribonucleoprotein Complex Subunit Organization

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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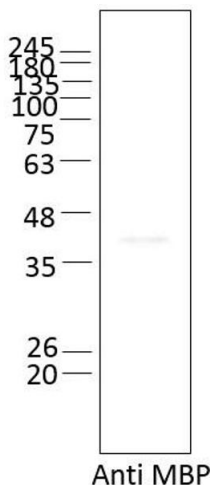
Application Details

Comment:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
Restrictions:	For Research Use only

Handling

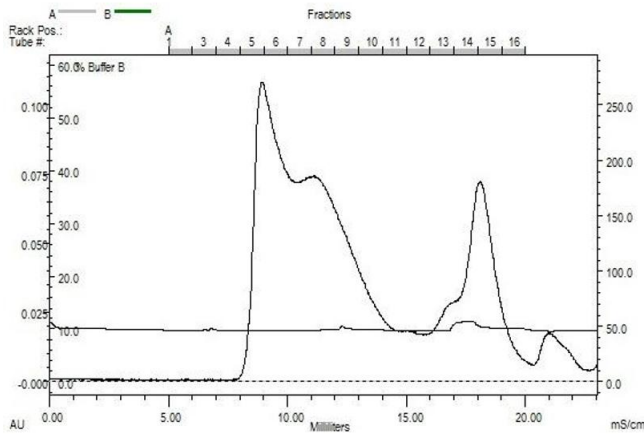
Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



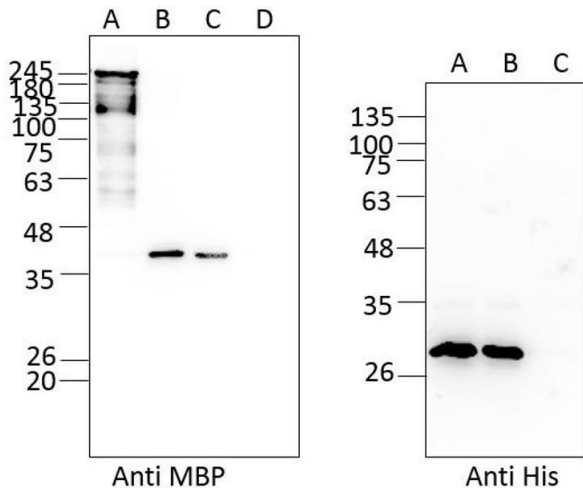
Western Blotting

Image 1. Ataxin2 no tag (AA 1 - 1313) fraction 8 - 10, MBP tag removed



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 2. Ataxin2 no tag (AA 1- 1313) gel filtration Superose 6 fraction 8 - 10



Western Blotting

Image 3. Ataxin2 no tag (AA 1 - 1313), fraction 8 - 10, MBP tag removed; A: MBP-Ataxin With TEV protease Oh; B: after TEV digest; C: after TEV (His) removal; D: after MBP removal

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3089810.