

Datasheet for ABIN3090374

CCDC144A Protein (AA 1-1427) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	CCDC144A
Protein Characteristics:	AA 1-1427
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCDC144A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	<p>MASWGGEKRG GAEGSPKPAV YATRKTPSVG SQGDQWYLG YPGDQWSSGFP YSWWKNSVGS ESKHGEGALD QPQH DVRLED LGELHRAARS GDVPGVEHIL APGDTGVDKR DRKKSIIQLV PEYKEKQTPE SLPQNNNPDW HPTNLTLSD ETCQRSKNLKV DDKCPSVSPS MPENQSATKE LGQMNLTERE KMDTG VVLLS GNDTLHDLCQ SQLPENKESK EAEQDSELTS EEEQERLKGC ENKQPQKTSQ EP EMAKDCDR EDIPIYPVLP HVQKSEEMWI EQGKLEWKNQ LKLVINELKQ RFGEIYEKYK IPACPEEEPL LDNSTRGTDV KDIPFNL TNN IPGCEEEDAS EISVSVVFET FPEQKEPSLK NIIHPYYHPY SGSQEHVCQS SSKFHLHENK LDCDNDNKPG IGHIFSTDKN FHNDASTKKA RNPEVVMVEM KEDQEFDLQM TKNMNQNSDS GSTNNYKSLK PKLENLSSLP PDSRTSEVY LHEELQQDMQ KFKNEVNTLE EEFLALKKED VQLHKDVEEE MEKHRNSTE LSGTLTDGTT VGND DDGLNQ QIPRKENGEH DRPADKTSNE KNEVKNQIYP EADFADSM EP SEIASEDCEL SHSVYENFML LIEQLRMEYK DSASLPRIQD TFCLCEHLLK LKNNHCDQLT VKLKQ MENMV SVLQNELSET KKT KLQLELQ KIEWEKELYD LRLALKQENE EKRNADMLYN</p>
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KDSEQLRIKE EECGKVETK QQLKWNLRRL VKELRTVRNN LDLVVQERND AQKQLSEEQD
ARILQDQILT SKQKELEMAR KKMNSEISHR HQKEKDLFHE DCMLQEEIAL LRLEIDTIKN
QNKQKEKKYF EDIEAVKEKN DNLQKIIKLN EETLTETILQ YSGQLNNLTA ENKILNSELE
NGKQNQERLE IEMESYRCRL AAVRDCDQS QTARDLKLDF QRTRQEWVRL HDKMKVDMMSG
LQAKNEILSE KLSNAESKIN SLQIQLHNTR DALGRESLIL ERVQRDLSQT QCQKKETEQM
YQIEQSKLKK YIAKQESVEE RLSQLQSENM LLRQQLDDAH KKANSQEKTS STIQDQFHSA
AKNLQAESEK QILSLQEKNK ELMDEYNHLK ERMDQCEKEK AGRKIDLTEA QETVPSRCLH
LDAENEVLQL QQTLFSMKAI QKQCETLQKN KKQLKQEVVN LKSYMERNML ERGKAEWHKL
LIEERARKEI EEKLNEAILT LQKQAAVSHE QLVQLREDNT TSIKTQMELT IKDLESEISR
IKTSQADFNK TELERYKELY LEEVKVRESL SNELSRTNEM IAEVSTQLTV EKEQTRSRL
FTAYATRPVL ESPCVGNLND SEGLNRKHIP RKKRSALKDM ESYLLKMQQK LQNDLTAEVA
GSSQTGLHRI PQCSSFSSSS LHLLLCISICQ PFFLILQLLL NMNLDPI

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

Product Details

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®): <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)
Grade:	Crystallography grade

Target Details

Target:	CCDC144A
Alternative Name:	CCDC144A (CCDC144A Products)
Background:	Coiled-coil domain-containing protein 144A,FUNCTION: May play a role in preventing the formation of kidney stones through inhibition of calcium oxalate monohydrate (COM) crystallization, attenuating COM-induced apoptotic injury to renal epithelial cells (PubMed:32991878). May exhibit antilithiatic (preventing the formation of kidney stones) activity through crystal binding, hindering the crystal attachment to renal epithelial cells, a pre-requisite to initiate inflammatory response (PubMed:32991878). {ECO:0000269 PubMed:32991878}.
Molecular Weight:	165.1 kDa
UniProt:	A2RUR9

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 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.

Expiry Date: Unlimited (if stored properly)



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