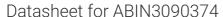
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# CCDC144A Protein (AA 1-1427) (Strep Tag)





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### Overview

Quantity:	1 mg
Target:	CCDC144A
Protein Characteristics:	AA 1-1427
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
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:

MASWGGEKRG GAEGSPKPAV YATRKTPSVG SQGDQWYLGY PGDQWSSGFP YSWWKNSVGS
ESKHGEGALD QPQHDVRLED LGELHRAARS GDVPGVEHIL APGDTGVDKR DRKKSIQQLV
PEYKEKQTPE SLPQNNNPDW HPTNLTLSDE TCQRSKNLKV DDKCPSVSPS MPENQSATKE
LGQMNLTERE KMDTGVVLLS GNDTLHDLCQ SQLPENKESK EAEQDSELTS EEEQERLKGC
ENKQPQKTSQ EPEMAKDCDR EDIPIYPVLP HVQKSEEMWI EQGKLEWKNQ LKLVINELKQ
RFGEIYEKYK IPACPEEEPL LDNSTRGTDV KDIPFNLTNN IPGCEEEDAS EISVSVVFET
FPEQKEPSLK NIIHPYYHPY SGSQEHVCQS SSKFHLHENK LDCDNDNKPG IGHIFSTDKN
FHNDASTKKA RNPEVVMVEM KEDQEFDLQM TKNMNQNSDS GSTNNYKSLK PKLENLSSLP
PDSDRTSEVY LHEELQQDMQ KFKNEVNTLE EEFLALKKED VQLHKDVEEE MEKHRSNSTE
LSGTLTDGTT VGNDDDGLNQ QIPRKENGEH DRPADKTSNE KNEVKNQIYP EADFADSMEP
SEIASEDCEL SHSVYENFML LIEQLRMEYK DSASLPRIQD TFCLCEHLLK LKNNHCDQLT
VKLKQMENMV SVLQNELSET KKTKLQLELQ KIEWEKELYD LRLALKQENE EKRNADMLYN

KDSEQLRIKE EECGKVVETK QQLKWNLRRL VKELRTVRNN LDLVVQERND AQKQLSEEQD

ARILQDQILT SKQKELEMAR KKMNSEISHR HQKEKDLFHE DCMLQEEIAL LRLEIDTIKN

QNKQKEKKYF EDIEAVKEKN DNLQKIIKLN EETLTETILQ YSGQLNNLTA ENKILNSELE

NGKQNQERLE IEMESYRCRL AAAVRDCDQS QTARDLKLDF QRTRQEWVRL HDKMKVDMSG

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 EKEQTRSRSL

FTAYATRPVL ESPCVGNLND SEGLNRKHIP RKKRSALKDM ESYLLKMQQK LQNDLTAEVA

GSSQTGLHRI PQCSSFSSSS LHLLLCSICQ 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 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 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 capture material. Eluate fractions are analyzed by SDS-PAGE.
- 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:

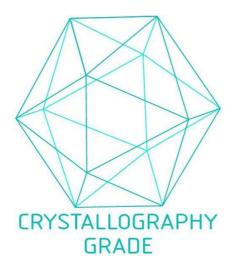
Crystallography grade

## **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 prerequisite 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