

Datasheet for ABIN3090374

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



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### Overview

Quantity:	250 µg
Target:	CCDC144A
Protein Characteristics:	AA 1-1427
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CCDC144A protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MASWGGEKRG GAEGSPKPAV YATRKTPSVG SQGDQWYLG Y PGDQWSSGFP YSWWKNSVGS</p> <p>ESKHGEGALD QPQH DVRLED LGELHRAARS GDVPGVEHIL APGDTGVDKR DRKKSIQQLV</p> <p>PEYKEKQTPE SLPQNNNP DW HPTNLTLSDE TCQRSKNLKV DDKCPSVSPS MPENQSATKE</p> <p>LGQMNLTRE KMDTG VVLLS GNDTLHDL CQ SQLPENKESK EAEQDSELT S EEEQERLKGC</p> <p>ENKQPQKTSQ EPEMAKDCDR EDIPIYPVLP HVQKSEEMWI EQGKLEWKNQ LKLVINELKQ</p> <p>RFGEIYEKYK IPACPEEEPL LDNSTRGTDV KDIPFNLTNN IPGCEEEDAS EISVS VVFET</p> <p>FPEQKEPSLK NIIHPYYHPY SGSQEHVCQS SSKFHLHENK LDCDNDNKP G IGHIFSTDKN</p> <p>FHNDASTKKA RNPEVVMVEM KEDQEFDLQM TKNMNQNSDS GSTNNYKSLK PKLENLSSLP</p> <p>PDS DRTSEVY LHEELQQDMQ KFKNEVNTLE EEFLALKKED VQLHKDVEEE MEKHR SNSTE</p> <p>LSGTLTDGTT VGND DDGLNQ QIPRKENG EH DRPADKTSNE KNEVKNIYP EADFADSM EP</p> <p>SEIAS EDC EL SHSVYENFML LIEQLRMEYK DSASLPRIQD TFCLCEHLLK LKNNHCDQLT</p>

VKLKQMENMV SVLQNELSET KTKKLQLELQ KIEWEKELYD LRLALKQENE EKRNADMLYN  
KDSEQLRIKE EECGKVETK QQLKWNLRRL VKELRTVRNN LDLVVQERND AQKQLSEEQD  
ARILQDQILT SKQKELEMAR KKMNSEISHR HQKEKDLFHE DCMLQEEIAL LRLEIDTIKN  
QNKQKEKKYF EDIEAVKEKN DNLQKIIKN EETLTETILQ YSGQLNNLTA ENKILNSELE  
NGKQNQERLE IEMESYRCRL AAARVDCDQS QTARDLKLDF QRTRQEWVRL HDKMKVDMMSG  
LQAKNEILSE KLSNAESKIN SLQIQLHNTR DALGRESLIL ERVQRDLSQT QCQKKETEQM  
YQIEQSKLKK YIAKQESVEE RLSQLQSENM LLRQQLDDAH KKANSQEKTS STIQDQFHSA  
AKNLQAESEK QILSLQEKNK ELMDEYNHLK ERMDQCEKEK AGRKIDLTEA QETVPSRCLH  
LDAENEVLQL QQTLFMSKAI QKQCETLQKN KKQLKQEVVN LKSYMERNML ERGKAEWHKL  
LIEERARKEI EEKLNEAILT LQKQAAVSHE QLVQLREDNT TSIKTQMELT IKDLESEISR  
IKTSQADFNK TELERYKELY LEEVKVRESL SNELSRTNEM IAEVSTQLTV EKEQTRSRL  
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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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

## Product Details

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 against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	CCDC144A
Alternative Name:	CCDC144A ( <a href="#">CCDC144A Products</a> )
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:	<a href="#">A2RUR9</a>

## 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

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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>
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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
Buffer:	<p>The buffer composition is at the discretion of the manufacturer.</p> <p>Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b></p>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months