

Datasheet for ABIN3095831

KIAA0586 Protein (KIAA0586) (AA 1-1533) (Strep Tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	KIAA0586
Protein Characteristics:	AA 1-1533
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KIAA0586 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MPVKRLREVV SQNHGDHLVL LKDELPCVPP ALSANKRLPV GTGTSLNQTS RGSSDLTSAR NCYQPLENP MVSEDFSKD VAVQVLPLDK IEENNKQKAN DIFISQYTMG QKDALRTVLK QKAQSMVPVK EVKVHLEDA GIEKDAVTQE TRISPSGIDS ATTVAAATAA AIATAAPLIK VQSDLEAKVN SVTELLSKLQ ETDKHLQRTV EQQTSIQRKQ EKLHCHDHEK QMNVFMEQHI RHLEKLQQQQ IDIQTHFISA ALKTSSFQPV SMPSSRAVEK YSVKPEHPNL GSCNPSLYNT FASKQAPLKE VEDTSFDKQK SPLETPAPRR FAPVPVSRDD ELSKRENLE EKENMEVSCH RGNVRLLEQI LNNNSDLTRK SESSNTTSLT RSKIGWTPKE TNRFPSCEEL ETTKVMTMQKS DDVLHDLGQK EKETNSMVQP KESLSMLKLP DLPQNSVKLQ TTNTTRSVLK DAEKILRGVQ NNKKVLEENL EAIIRAKDGA AMYSLINALS TNREMSEKIR IRKTVDEWIK TISAEIQDEL SRTDYEQKRF DQKNQRTKKG QNMTKDIRTN TQDKTVNKSVP IPRKHSQKQI EEHFRNLPMR GMPASSLQKE RKEGLLKATT VIQDEDYMLQ VYGKPVYQGH RSTLKKGPYL RFNSPSPKSR PQRPKVIERV KGTKVKSIRT QTDFYATKPK KMDSKMKHSV PVLPHGDQQY LFSPSREMP
-----------	---

FSGTLEGLHI PMAILLGQTQ SNSDTMPPAG VIVSKPHPVT VTTSIPPSSR KVETGVKKPN
IAIVEMKSEK KDPPQLTVQV LPSVDIDSIS NSSADVLSPS SSPKEASLPP VQTWIKTPEI
MKVDEEEVKF PGTNFDEIID VIQEEKCE IPDSEPILEF NRSVKADSTK YNGPPFPVPA
STFQPTADIL DKVIERKETL ENSLIQWVEQ EIMSRIISGL FVPQQIAPS ISVSVSETSE PLTSDIVEGT
SSGALQLFVD AGVPVNSNVI KHFVNEALAE TIAVMLGDRE AKKQGPVATG VSGDASTNET
YLPARVCTPL PTPQTPPCS PSSPAKECVL VKTPDSSPCD SDHDMAFPVK EICAEKGDDM
PAIMLVNTPT VPTTTTPPA AAVFTPTLSD ISIDKLKVSS PELPKPWGDG DLPLEENPN
SPQEELHPRA IVMSVAKDEE PESMDFPAQP PPPEVPFMP FPAGTKAPSP SQMPGSDSST
LESTLSVTVT ETETLDKPIS EGEILFSCGQ KLAPKILEDI GLYLTNLNDS LSSTLHDAVE
MEDDPPSEGQ VIRMSHKKFH ADAILSFAKQ NQESAVSQQA VYHSEDLNS VGELSEGQRP
QLTAAENIL MGHSLYMQPP VTNTQSLDQQ CDPKPLSRQF DTVSGSIYED SCASHGPMSL
GELELEPNSK LVLPTLLTA QENDVNLPVA AEDFSQYQLK QNQDVKQVEH KPSQSYLRVR
NKSDIAPSQQ QVSPGDMVRT QIELNPYLTC VFSGGKAVPL SASQMPPAKM SVMPLPSVNLE
DCSQSLSLST MQEDMESSGA DTF

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.

Product Details

- 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. 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:	KIAA0586
Alternative Name:	KIAA0586 (KIAA0586 Products)
Background:	Protein TALPID3,FUNCTION: Required for ciliogenesis and sonic hedgehog/SHH signaling. Required for the centrosomal recruitment of RAB8A and for the targeting of centriole satellite proteins to centrosomes such as of PCM1. May play a role in early ciliogenesis in the disappearance of centriolar satellites that preceeds ciliary vesicle formation (PubMed:24421332). Involved in regulation of cell intracellular organization. Involved in regulation of cell polarity (By similarity). Required for asymmetrical localization of CEP120 to daughter centrioles (By similarity). {ECO:0000250 UniProtKB:E9PV87,

Target Details

ECO:0000250|UniProtKB:Q1G7G9, ECO:0000269|PubMed:24421332}.

Molecular Weight: 169.3 kDa

UniProt: [Q9BVV6](#)

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