

Datasheet for ABIN3135871

## KIAA1009 (KIAA1009) (AA 1-1403) protein (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	KIAA1009
Protein Characteristics:	AA 1-1403
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MAHYFKVDLD EEFERFMKEL SDDSFENSNK TPRQPNEDNK EMKKKDPVPW WIAEDDFEDD</p> <p>GLLGTVNSYL KTKKTYQPVM DTEESAEEKV QFLKSSGTSI LSVDSLEANE LVVSEPHHST</p> <p>LGLGLDTLEE QEEKEQFFAR LEKGLTSSID YSKLNQELDS DDSAQLKALH RYPRNTEPAE</p> <p>DGCENESEQE ELPETYSDDF EDAEDADDPL ITKDEETHPK ENSESGKDSF PKQEEEEKTGM</p> <p>LANVVLLDSF DSVEDVGLSS QEKATPKAKA PPEITDDGPA ETGVYPYGQSS GDTEALHQAY</p> <p>CHVAHSLGDT GEPRIEASTV QTVRSSIKDG LQENEESKN VSTTESDLPT VEELMQPIRI</p> <p>DSYGIRAFDL QPISLKKATD SKEAESVGSL PLKTNNTNTVS QDTRHAIQFP HKHDESVDLH</p> <p>RTADEGMGSS CPATEEHLDK MYLEILKKKT SVNPSLLPQD DKMNQTSRSQ LGAGEEVPVI</p> <p>GKQVPCKKAR STPSLPKRKP QSGLYASARS SGYGKPSSPL QLFSALEKKT SKDNTKTKSV</p> <p>RSIPTSNQFR KREILSGTKL IKPAASNKPS PHREGSPATP KRPEDPSDDS FVQLQTEPLG</p> <p>SYGGNREKEL LMLKRAQDAE EKWTGAQALM EQMKMTFCEK EKELENTVES LKRQQERELF</p>

RLNQENYILQ AKLSSFEETS RKQRWLQFGE TSDPLTGEKL KQIQKEIQEQ ETLLQGYQQE  
NERLYNQVKD LQEQNKKNEE RMFKENQNLF SELASLKEQM HKNHFLSQAV ENTEPTKNQS  
FTDLLAELRA AQKEKNHLM E DIKRLKQDKQ ALEVDLEKVK RERDQAKDQI AYATGEKLYE  
IKILEETHKQ EVSRLQKRLQ WYAENQELLD RDAARLREAN EETEKLRLEI EKLKTESGSP  
ATQQLRSKE RALDAKRIQD LERQVKEMEG ILKRRYPNSL PALILAASAA GDSVDRNTVE  
FMERRIKKLE ADLEGKDEEA KKSRLTMEQQ FQKMKIQYEQ RLEEQEQLLA HRQKEAPQSQ  
RNSSSRKAL ETELGDIEA HQITVRKLEA EIDVLKHQNA DLEHKKNDKG DQGLQSIEFQ  
VEQAQARAKL ARLNEELA AK GREIQDLTKT VERLQKERRM MLRQIPRSR EETA AKRLKK  
DPNRGHGNAF PETLDGKLYH PHTFTDSHIS EVLEENYRLR SELEGLILER SKLKMES EAA  
VCQLENSMKR VKDDAAAHIA SLKASHEREI EKLLCQNAIE NSSSKVAELN RKIATQEVLL  
KHFQGQVNEL QGKQESLAVS QVREEILQKQ ITKLLEELKE AKENHTPEMK HFMGLERKIK  
QMEMRHRQRE QELQQIIQQT RQVVETE QNK EVEKWKRLAQ LKNRELDKFR TELDSILDVL  
RELHRQGVVV PMALAGEENT AEF

**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:	KIAA1009
Alternative Name:	Cep162 ( <a href="#">KIAA1009 Products</a> )
Background:	Centrosomal protein of 162 kDa (Cep162) (Protein QN1 homolog),FUNCTION: Required to promote assembly of the transition zone in primary cilia. Acts by specifically recognizing and binding the axonemal microtubule. Localizes to the distal ends of centrioles before ciliogenesis and directly binds to axonemal microtubule, thereby promoting and restricting transition zone formation specifically at the cilia base. Required to mediate CEP290 association with microtubules (By similarity). {ECO:0000250}.
Molecular Weight:	160.9 kDa
UniProt:	<a href="#">Q6ZQ06</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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from

Application Details

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.  
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months