

Datasheet for ABIN3091493

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



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	KIAA1009
Protein Characteristics:	AA 1-1403
Origin:	Human
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>MANCSQEELD EEFEQFMKEL SDDSFENSDK TARQSKKEMK KKDTVPWWIT EDDFKDDGLL</p> <p>GTNVSYLGTK KTSQPVMEIE EESAELIQFL KSSGTSLLST DSLETNELVV SELNHSSLGV</p> <p>GLDTLEEQEE KEQFFARLEK GLTSSIDYSR LNKELDSNDS THFKALHSNQ ANAELTDDEH</p> <p>ENESKHEELA ENYSDDFEDE YVGAPLTTKD EEMPSKENS SKISVPKQE EEKTGMLANV</p> <p>VLLDSLDSVA EVNLDEQDKI TPKPRCLPEM TENEMTGTGV SYGQSSSDVE ALHQAYCHIA</p> <p>HSLGDEDKQK IESNTVEDIK SSVKGHPQEN EENSKNISTM ESDLPTVEEL MKPIRIDSFG</p> <p>ISGFDLQPVV SEKVAERKET EFFSSLPLKM NPNILSQDSQ HVNLFFDKND ENVILQKTTN</p> <p>ESMENSCPQV TEVTATEEHV DKMYLNILRK KITVNSSSL S QDDKINKTYR SQLSSEEEGA</p> <p>VMGKQVPYKK ARSAPLLKR KPQSGLYASV RSSGYGKPSS PLKMFSTLEK KTSEDIKSK</p> <p>NLRSISTSNQ PRKKEILSGT KLIKPAALDK PAHKTESCLS TRKXSENPTD TDSCIQFQTD</p> <p>SLGYCGENKE KKLLMFKRVQ EAEDKWRGAQ ALIEQIKATF SEKEKELENK LEELKKQKEK</p>

ELFKLNQDNY ILQAKLSSFE ETNKKQRWLH FGAAADPVTG EKLKQIQKEI QEQETLLQGY
QQENERLYNQ VKDLQEQNKK NEERMFKENQ SLFSEVASLK EQMHKSRFLS QVVEDSEPTR
NQNFTDLLAE LRMAQKEKDS LLEDIKRLKQ DKQALEVDFE KMKKERDQAK DQIAYVTGEK
LYEIKILEET HKQEISRLQK RLQWYAENQE LLDKDALRLR EANEIEKLLK LEIEKLKAES
GNPSIRQKIR LKDKAADAKK IQDLERQVKE MEGILKRRYP NSLPALILAA SAAGDTV DKN
TVEFMEKRIK KLEADLEGKD EDAKSLRTM EQQFQKMKIQ YEQRLEQQEQ LLACKLNQHD
SPRIKALEKE LDDIKEAHQI TVRNLEAEID VLKHQNAELD VKKNDKDDDED FQSIEFQVEQ
AHAKAKLVRL NEELAACKRE IQDLSKTVR LQKDRRMMLS NQNSKGREEM SAKRAKDVDL
HSSKGNANSF PGTLD SKLYQ PHTFTDSHVS EVLQENYRLK NELEGLISEK NELKMKSEAV
MNQFENSMRR VKEDTAAHIA SLKASHQREI EKLLCQNAVE NSSSKVAELN RKIATQEVLI
RHFQSQVNEL QSKQESLVVS EVREEILQKE ITKLLEELRE AKENHTPEMK HFVGGLEKKIK
QMEMRHAQRE QELQQIIQQT HQVVETE QNK EVEKWKRLAQ LKNRELEKFR TELDSILDVL
RELHRQGVVV PVAFADEMNA PEY

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 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 (KIAA1009 Products)
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. {ECO:0000269 PubMed:23644468}.
Molecular Weight:	161.9 kDa
UniProt:	Q5TB80

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