

Datasheet for ABIN3093062

IFT140 Protein (AA 1-1462) (Strep Tag)



[Go to Product page](#)

Overview

Quantity:	250 µg
Target:	IFT140
Protein Characteristics:	AA 1-1462
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IFT140 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MALYYDHQIE APDAAGSPSF ISWHPVHPFL AVAYISTTST GSVDIYLEQG ECVPDTHVER</p> <p>PFRVASLCWH PTRLVLA VGW ETGEVTVFNK QDKEQHTMPL THTADITVLR WSPSGNCLLS</p> <p>GDRLGVLLW RLDQQRGVQG TPLLKHEYGK HLTHCIFRLP PPGEDLVQLA KAAVSGDEKA</p> <p>LDMFNWKKSS SGSLLKMGSH EGLLFFVSLM DGTVHYVDEK GKTTQVVSAD STIQMLFYME</p> <p>KREALVVTE NLRSLYTV PEGKAEVMK VKLSGKTGRR ADIALIEGSL LVMAVGEEAL</p> <p>RFWDIERGEN YILSPDEKFG FEKGENMNCV CYCKVKGLLA AGTDRGRVAM WRKVPDFLGS</p> <p>PGAEGKDRWA LQTPTELQGN ITQIQWGSRK NLLAVNSVIS VAILSERAMS SHFHQQVAAM</p> <p>QVSPSLLNVC FLSTGVAHSL RTDMHISGVF ATKDAVAVWN GRQVAIFELS GAAIRSAGTF</p> <p>LCETPVLAMH EENVYTVESN RVQVRTWQGT VKQLLLFSET EGNPCFLDIC GNFLVVGTDL</p> <p>AHFKSFDLSR REAKAHCSCR SLAELVPGVG GIASLRCSSS GSTISILPSK ADNSPDSKIC</p> <p>FYDVEMDTVT VFDFKTGQID RRETLSFNEQ ETNKSHLFVD EGLKNYVPVN HFWDQSEPRL</p>

FVCEAVQETP RSQPQSANGQ PQDGRAGPAA DVLILSFFIS EEHGFLHES FPRPATSHSL
LGMEVPYYF TRKPEEADRE DEVEPGCHHI PQMVSRRPLR DFGLEDCKD ATRDAMLHFS
FFVTIGDMDE AFKSIKLIK EAVWENMARM CVKTQRLDVA KVCLGNMGHA RGARALREAE
QEPELEARVA VLATQLGMLD DAEQLYRKCK RHDLLNKFYQ AAGRWQEALQ VAEHHDRVHL
RSTYHRYAGH LEASADCSRA LSYYEKSDTH RFEVPRMLSE DLPSELEYVN KMKDKTLWRW
WAQYLESQGE MDAALHYYEL ARDHFSLVRI HCFQGNVQKA AQIANETGNL AASYHLARQY
ESQEEVGQAV HFYTRAQAFK NAIRLCKENG LDDQLMNLAL LSSPEDMIEA ARYYEEKGVQ
MDRAVMLYHK AGHFSKALEL AFATQQFVAL QLIAEDLDET SDPALLARCS DFFIEHSQYE
RAVELLLAAR KYQEALQLCL GQNMSITEEM AEKMTVAKDS SDLPEESRRE LLEQIADCCM
RQGSYHLATK KYTQAGNKLK AMRALLKSGD TEKITFFASV SRQKEIYIMA ANYLQSLDWR
KEPEIMKNII GFYTKGRALD LLAGFYDACA QVEIDEYQNY DKAHGALTEA YKCLAKAKAK
SPLDQETRLA QLQSRMALVK RFIQARRTYT EDPKESIKQC ELLLEPDLD STIRIGDVYG
FLVEHYVRKE EYQTAYRFLE EMRRRLPLAN MSYYVSPQAV DAVHRGLGLP LPRTVPEQVR
HNSMEDAREL DEEVVEEADD DP

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

Product Details

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 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:	IFT140
Alternative Name:	IFT140 (IFT140 Products)
Background:	Intraflagellar transport protein 140 homolog (WD and tetratricopeptide repeats protein 2),FUNCTION: Component of the IFT complex A (IFT-A), a complex required for retrograde ciliary transport and entry into cilia of G protein-coupled receptors (GPCRs) (PubMed:20889716, PubMed:22503633). Plays a pivotal role in proper development and function of ciliated cells through its role in ciliogenesis and/or cilium maintenance (PubMed:22503633). Required for the development and maintenance of the outer segments of rod and cone photoreceptor cells. Plays a role in maintenance and the delivery of opsin to the outer segment of photoreceptor cells (By similarity). {ECO:0000250 UniProtKB:E9PY46, ECO:0000269 PubMed:20889716, ECO:0000269 PubMed:22503633, ECO:0000269 PubMed:28724397}.
Molecular Weight:	165.2 kDa
UniProt:	Q96RY7
Pathways:	Hedgehog Signaling

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.
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