

Datasheet for ABIN3122937

IFT88 Protein (AA 1-824) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	IFT88
Protein Characteristics:	AA 1-824
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This IFT88 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MENVHLAPET DEDDLYSGFN DYNPAYDTEE LENDTGFQQA VRTSHGRRPP VTAKIPSTAV</p> <p>SRPIATGYGS KTSLTSSMGR PMTGTIQDGV ARPMTAVRAA GFSKAALRGS AFDPLGQSRG</p> <p>PAPPLEAKNE DSPEEKIRQL EKKVNELVEE SCIANSCGDL KLALEKAKDA GRKERVLRQ</p> <p>REQVTSPENI NLDLTYSVLF NLASQYSANE MYAEALNTYQ VIVKNKMFSN AGRLKVNMG</p> <p>IYLKQRNYSK AIKFYRMALD QIPSVHKEMR IKIMQNIGIT FIKTGQYSDA INSFEHIMSM</p> <p>APSLKAGFNL ILSCFAIGDR EKMKKAFQKL IAVPLEIDED DKYISPDDP HTNLLIEAIK</p> <p>NDHLRQMERE RKAMAEKYIM TAAKLIAPVI EASFAVGYNW CVEVVKASQY VELANDLEIN</p> <p>KAITYLRQKD FNQAVDTLKM FEKKDSRVKS AAATNLSFLY YLENEFAQAS SYADLAVNSD</p> <p>RYNPSALTNK GNTVFANGDY EKAAEFYKEA LRNDSSCTEA LYNIGLTYKK LNRLDEALDS</p> <p>FLKLHAILRN SAQVLCQIAN IYELMEDPNQ AIEWLMQLIS VVPTDSQALS KLGELYDSEG</p> <p>DKSQAFQYYY ESYRYFPSNI EVIEWLGAYY IDTQFCEKAI QYFERASLIQ PTQVKWQLMV</p>

ASCFRRSGNY QKALDITYKEI HRKFPENVEC LRFLVRLCTD IGLKEVQEYA TKLKRLEKMK
EMREQRIKSG RDSSGGSRSK REGSAGSDSG QNNSASSKSE RLSAKLRALP GTDEPYESSG
NKEIDASYVD PLGPQIERPK TAAKKRIDED DFADEELGDD LLPE

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 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

Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	IFT88
Alternative Name:	Ift88 (IFT88 Products)
Background:	Intraflagellar transport protein 88 homolog (Recessive polycystic kidney disease protein Tg737) (Tetratricopeptide repeat protein 10) (TPR repeat protein 10) (TgN(Imorpk)737Rpw),FUNCTION: Positively regulates primary cilium biogenesis (PubMed:31761534, PubMed:11062270, PubMed:21289087). Also involved in autophagy since it is required for trafficking of ATG16L and the expansion of the autophagic compartment. {ECO:0000269 PubMed:11062270, ECO:0000269 PubMed:21289087, ECO:0000269 PubMed:31761534}.
Molecular Weight:	93.0 kDa
UniProt:	Q61371
Pathways:	Hedgehog Signaling , Sensory Perception of Sound

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:	<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>
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