

Datasheet for ABIN3135222

## CYFIP2 Protein (AA 1-1253) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	CYFIP2
Protein Characteristics:	AA 1-1253
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYFIP2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MTTHVTLEDA LSNVDLLEEL PLPDQQPCIE PPPSSIMYQA NFDTNFEDRN AFVTGIARYI</p> <p>EQATVHSSMN EMLEEGHDYA VMLYTWRS CS RAIPQVKCNE QPNRVEIYEK TVEVLEPEVT</p> <p>KLMKFMYFQR KAIFRFCSEV KRLCHAERRK DVFSEAYLLT LGKFINMFAV LDELKNMKCS</p> <p>VKNDHSAYKR AAQFLRK MAD PQSIQESQNL SMFLANHNRI TQCLHQQLEV IPGYEELLAD</p> <p>IVNICVDYEE NKMYLTPSEK HMLLKVMGFG LYLMDGNVSN IYKLDACKRI NLSKIDKFFK</p> <p>QLQVVPLFGD MQIELARYIK TSAHYEENKS KWTCTQSSIS PQYNICEQMV QIRDDHIRFI</p> <p>SELARYSNSE VVTGSGLD SQ KSDEEYRELF DLALRGLQLL SKWSAHVMEV YSWKLVHPTD</p> <p>KFCNKDCPGT AEEYERATRY NYTSEEKFAF VEVIA MIKGL QVLMGRMESV FNQAIRNTIY</p> <p>AALQDFAQVT LREPLRQAVR KKKNVLISVL QAIRKTICDW EGGREPPNDP CLRGEKDPKG</p> <p>GFDIKVPRRA VGPSSTQLYM VRTMLESLIA DKSGSKKTLR SSLDGPIVLA IEDFHKQSFF</p> <p>FTHLLNISEA LQCCDLSQL WFREFFLELT MGRRIQFPIE MSMPWILTDH ILETKEPSMM</p>

EYVLYPLDLY NDSAYYALTK FKKQFLYDEI EAEVNLCFDQ FVYKLADQIF AYYKAMAGSV  
LLDKRFRAEC KNYGVIIPYP PSNRYETLLK QRHVQLLGRS IDLNRLITQR ISAAMYKSLD  
QAISRFESD LTSIVELEWL LEINRLTHRL LCKHMTLDSF DAMFREANHN VSAPYGRITL  
HVFWEINFDL LPNYCYNGST NRFVRTAIPF TQEPQRDKPA NVQPYYLYGS KPLNIAYSHI  
YSSYRNFGVP PHFKTICRLL GYQGIAVME ELLKIVKSLL QGTILQYVKT LIEVMPKICR  
LPRHEYGSPG ILEFFHHQLK DIIYAELKT DVFQSLREVG NAILFCLLIE QALSQEEVCD  
LLHAAPFQNI LPRVYIKEGE RLEVRMKRLE AKYAPLHLVP LIERLGTPQQ IAIAREGDLL  
TKERLCCGLS MFEVILTRIR SYLQDPIWRG PPPTNGVMHV DECVEFHRLW SAMQFVYCIP  
VGTNEFTAQEQ CFGDGLNWAG CSIIVLLGQQ RRFDLDFDCY HLLKVQRQDG KDEIKNVPL  
KKMADRIRKY QILNNEVFAI LNKYMKSVET DSSTVEHVRC FQPPHQSLLA TTC

**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 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!

## Product Details

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

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Target:	CYFIP2
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Alternative Name:	Cyfp2 ( <a href="#">CYFIP2 Products</a> )
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Background:	Cytoplasmic FMR1-interacting protein 2 (p53-inducible protein 121),FUNCTION: Part of the WAVE1 complex that regulates actin filament reorganization via its interaction with the Arp2/3 complex (By similarity). Involved in T-cell adhesion and p53-dependent induction of apoptosis (By similarity). Does not bind RNA. As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (PubMed:27605705). {ECO:0000250 UniProtKB:Q96F07, ECO:0000269 PubMed:11438699, ECO:0000269 PubMed:27605705}.
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Molecular Weight:	145.7 kDa
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UniProt:	<a href="#">Q5SQX6</a>
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Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Apoptosis</a> , <a href="#">Positive Regulation of Endopeptidase Activity</a>
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## Application Details

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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.
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Comment:	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
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## Application Details

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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!

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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
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Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
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Handling Advice:	Avoid repeated freeze-thaw cycles.
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Storage:	-80 °C
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Storage Comment:	Store at -80°C.
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Expiry Date:	12 months
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