Datasheet for ABIN3092027

CYFIP1 Protein (AA 1-1253) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	CYFIP1
Protein Characteristics:	AA 1-1253
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CYFIP1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAAQVTLEDA LSNVDLLEEL PLPDQQPCIE PPPSSLLYQP NFNTNFEDRN AFVTGIARYI EQATVHSSMN EMLEEGQEYA VMLYTWRSCS RAIPQVKCNE QPNRVEIYEK TVEVLEPEVT KLMNFMYFQR NAIERFCGEV RRLCHAERRK DFVSEAYLIT LGKFINMFAV LDELKNMKCS VKNDHSAYKR AAQFLRKMAD PQSIQESQNL SMFLANHNKI TQSLQQQLEV ISGYEELLAD IVNLCVDYYE NRMYLTPSEK HMLLKVMGFG LYLMDGSVSN IYKLDAKKRI NLSKIDKYFK QLQVVPLFGD MQIELARYIK TSAHYEENKS RWTCTSSGSS PQYNICEQMI QIREDHMRFI SELARYSNSE VVTGSGRQEA QKTDAEYRKL FDLALQGLQL LSQWSAHVME VYSWKLVHPT DKYSNKDCPD SAEEYERATR YNYTSEEKFA LVEVIAMIKG LQVLMGRMES VFNHAIRHTV YAALQDFSQV TLREPLRQAI KKKKNVIQSV LQAIRKTVCD WETGHEPFND PALRGEKDPK SGFDIKVPRR AVGPSSTQLY MVRTMLESLI ADKSGSKKTL RSSLEGPTIL DIEKFHRESF FYTHLINFSE TLQQCCDLSQ LWFREFFLEL TMGRRIQFPI EMSMPWILTD HILETKEASM

MEYVLYSLDL YNDSAHYALT RFNKQFLYDE IEAEVNLCFD QFVYKLADQI FAYYKVMAGS LLLDKRLRSE CKNQGATIHL PPSNRYETLL KQRHVQLLGR SIDLNRLITQ RVSAAMYKSL ELAIGRFESE DLTSIVELDG LLEINRMTHK LLSRYLTLDG FDAMFREANH NVSAPYGRIT LHVFWELNYD FLPNYCYNGS TNRFVRTVLP FSQEFQRDKQ PNAQPQYLHG SKALNLAYSS IYGSYRNFVG PPHFQVICRL LGYQGIAVVM EELLKVVKSL LQGTILQYVK TLMEVMPKIC RLPRHEYGSP GILEFFHHQL KDIVEYAELK TVCFQNLREV GNAILFCLLI EQSLSLEEVC DLLHAAPFQN ILPRVHVKEG ERLDAKMKRL ESKYAPLHLV PLIERLGTPQ QIAIAREGDL LTKERLCCGL SMFEVILTRI RSFLDDPIWR GPLPSNGVMH VDECVEFHRL WSAMQFVYCI PVGTHEFTVE QCFGDGLHWA GCMIIVLLGQ QRRFAVLDFC YHLLKVQKHD GKDEIIKNVP LKKMVERIRK FQILNDEIIT ILDKYLKSGD GEGTPVEHVR CFQPPIHQSL ASS

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!

Product Details

	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:	CYFIP1
Alternative Name:	CYFIP1 (CYFIP1 Products)
Background:	Cytoplasmic FMR1-interacting protein 1 (Specifically Rac1-associated protein 1) (Sra-1) (p140sra-1),FUNCTION: Component of the CYFIP1-EIF4E-FMR1 complex which binds to the mRNA cap and mediates translational repression. In the CYFIP1-EIF4E-FMR1 complex this subunit is an adapter between EIF4E and FMR1. Promotes the translation repression activity of FMR1 in brain probably by mediating its association with EIF4E and mRNA (By similarity). Regulates formation of membrane ruffles and lamellipodia. Plays a role in axon outgrowth. Binds to F-actin but not to RNA. Part of the WAVE complex that regulates actin filament reorganization via its interaction with the Arp2/3 complex. Actin remodeling activity is regulated by RAC1. Regulator of epithelial morphogenesis. As component of the WAVE1 complex, required for BDNF-NTRK2 endocytic trafficking and signaling from early endosomes (By similarity). May act as an invasion suppressor in cancers. {ECO:0000250|UniProtKB:Q7TMB8, ECO:0000269|PubMed:16260607, ECO:0000269|PubMed:19524508, ECO:0000269|PubMed:21107423, ECO:0000269|PubMed:9417078}.
Molecular Weight:	145.2 kDa
UniProt:	Q7L576

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies

Application Details

	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