Datasheet for ABIN3092555

FBXW8 Protein (AA 1-598) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	FBXW8
Protein Characteristics:	AA 1-598
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXW8 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MDDYSLDEFR RRWQEELAQA QAPKKRRRPE AAERRARRPE VGSGRGEQAS GDPALAQRLL EGAGRPPAAR ATRAEGQDVA SRSRSPLARE GAGGGEQLVD QLIRDLNEMN DVPFFDIQLP YELAINIFQY LDRKELGRCA QVSKTWKVIA EDEVLWYRLC QQEGHLPDSS ISDYSCWKLI FQECRAKEHM LRTNWKNRKG AVSELEHVPD TVLCDVHSHD GVVIAGYTSG DVRVWDTRTW DYVAPFLESE DEEDEPGMQP NVSFVRINSS LAVAAYEDGF LNIWDLRTGK YPVHRFEHDA RIQALALSQD DATVATASAF DVVMLSPNEE GYWQIAAEFE VPKLVQYLEI VPETRRYPVA VAAAGDLMYL LKAEDSARTL LYAHGPPVTC LDVSANQVAF GVQGLGWVYE GSKILVYSLE AGRRLLKLGN VLRDFTCVNL SDSPPNLMVS GNMDGRVRIH DLRSGNIALS LSAHQLRVSA VQMDDWKIVS GGEEGLVSVW DYRMNQKLWE VYSGHPVQHI SFSSHSLITA NVPYQTVMRN ADLDSFTTHR RHRGLIRAYE FAVDQLAFQS PLPVCRSSCD AMATHYYDLA LAFPYNHV **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 System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	FBXW8
Alternative Name:	FBXW8 (FBXW8 Products)
Background:	F-box/WD repeat-containing protein 8 (F-box and WD-40 domain-containing protein 8) (F-box only protein 29),FUNCTION: Substrate-recognition component of a Cul7-RING ubiquitin-protein ligase complex, which mediates the ubiquitination and subsequent proteasomal degradation of target proteins. The Cul7-RING(FBXW8) complex mediates ubiquitination and consequent degradation of GORASP1, acting as a component of the ubiquitin ligase pathway that regulates Golgi morphogenesis and dendrite patterning in brain (PubMed:21572988). Mediates ubiquitination and degradation of IRS1 in a mTOR-dependent manner: the Cul7-RING(FBXW8) complex recognizes and binds IRS1 previously phosphorylated by S6 kinase (RPS6KB1 or RPS6KB2) (PubMed:18498745). The Cul7-RING(FBXW8) complex also mediates ubiquitination of MAP4K1/HPK1: recognizes and binds autophosphorylated MAP4K1/HPK1, leading to its degradation, thereby affecting cell proliferation and differentiation (PubMed:24362026). Associated component of the 3M complex, suggesting that it mediates some of 3M complex functions (PubMed:24793695). {ECO:0000269|PubMed:18498745, ECO:0000269|PubMed:21572988, ECO:0000269|PubMed:24362026, ECO:0000269|PubMed:24793695}.
Molecular Weight:	67.4 kDa
UniProt:	Q8N3Y1

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

Application Details

	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