Datasheet for ABIN3092615

FBXO7 Protein (AA 1-522) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	FBXO7
Protein Characteristics:	AA 1-522
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FBXO7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MRLRVRLLKR TWPLEVPETE PTLGHLRSHL RQSLLCTWGY SSNTRFTITL NYKDPLTGDE ETLASYGIVS GDLICLILQD DIPAPNIPSS TDSEHSSLQN NEQPSLATSS NQTSMQDEQP SDSFQGQAAQ SGVWNDDSML GPSQNFEAES IQDNAHMAEG TGFYPSEPML CSESVEGQVP HSLETLYQSA DCSDANDALI VLIHLLMLES GYIPQGTEAK ALSMPEKWKL SGVYKLQYMH PLCEGSSATL TCVPLGNLIV VNATLKINNE IRSVKRLQLL PESFICKEKL GENVANIYKD LQKLSRLFKD QLVYPLLAFT RQALNLPDVF GLVVLPLELK LRIFRLLDVR SVLSLSAVCR DLFTASNDPL LWRFLYLRDF RDNTVRVQDT DWKELYRKRH IQRKESPKGR FVMLLPSSTH TIPFYPNPLH PRPFPSSRLP PGIIGGEYDQ RPTLPYVGDP ISSLIPGPGE TPSQFPPLRP RFDPVGPLPG PNPILPGRGG PNDRFPFRPS RGRPTDGRLS FM **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:	FBXO7
Alternative Name:	FBXO7 (FBXO7 Products)
Background:	F-box only protein 7,FUNCTION: Substrate recognition component of a SCF (SKP1-CUL1-F-box protein) E3 ubiquitin-protein ligase complex which mediates the ubiquitination and subsequent proteasomal degradation of target proteins and plays a role in several biological processes such as cell cycle, cell proliferation, or maintenance of chromosome stability (PubMed:15145941, PubMed:34791250). Recognizes and ubiquitinates BIRC2 and the cell cycle regulator DLGAP5 (PubMed:15145941, PubMed:16510124, PubMed:22212761). Plays a role downstream of PINK1 in the clearance of damaged mitochondria via selective autophagy (mitophagy) by targeting PRKN to dysfunctional depolarized mitochondria. Promotes MFN1 ubiquitination. Mediates the ubiquitination and proteasomal degradation of UXT isoform 2, thereby impairing the NF-kappa-B signaling pathway (PubMed:33010352). Inhibits NF-kappa-B pathway also by promoting the ubiquitination of TRAF2 (PubMed:22212761). Affects the assembly state and activity of the proteasome in the cells including neurons by ubiquitinating the proteasomal subunit PSMA2 via 'Lys-63'-linked polyubiquitin chains (By similarity). Promotes 'Lys-48'-linked polyubiquitination SIRT7, leading to the hydrogen peroxide-induced cell death (PubMed:36646384). {ECO:0000250|UniProtKB:Q3U7U3, ECO:0000269|PubMed:15145941, ECO:0000269|PubMed:16510124, ECO:0000269|PubMed:22212761, ECO:0000269|PubMed:23933751, ECO:0000269|PubMed:33010352, ECO:0000269|PubMed:34791250, ECO:0000269|PubMed:36646384}.
Molecular Weight:	58.5 kDa
UniProt:	Q9Y3I1

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

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	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