Datasheet for ABIN3094662

PLEKHG6 Protein (AA 1-790) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PLEKHG6
Protein Characteristics:	AA 1-790
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PLEKHG6 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MKAFGPPHEG PLQGLVASRI ETYGGRHRAS AQSTAGRLYP RGYPVLDPSR RRLQQYVPFA RGSGQARGLS PMRLRDPEPE KRHGGHVGAG LLHSPKLKEL TKAHELEVRL HTFSMFGMPR LPPEDRRHWE IGEGGDSGLT IEKSWRELVP GHKEMSQELC HQQEALWELL TTELIYVRKL KIMTDLLAAG LLNLQRVGLL MEVSAETLFG NVPSLIRTHR SFWDEVLGPT LEETRASGQP LDPIGLQSGF LTFGQRFHPY VQYCLRVKQT MAYAREQQET NPLFHAFVQW CEKHKRSGRQ MLCDLLIKPH QRITKYPLLL HAVLKRSPEA RAQEALNAMI EAVESFLRHI NGQVRQGEEQ ESLAAAAQRI GPYEVLEPPS DEVEKNLRPF STLDLTSPML GVASEHTRQL LLEGPVRVKE GREGKLDVYL FLFSDVLLVT KPQRKADKAK VIRPPLMLEK LVCQPLRDPN SFLLIHLTEF QCVSSALLVH CPSPTDRAQW LEKTQQAQAA LQKLKAEEYV QQKRELLTLY RDQDRESPST RPSTPSLEGS QSSAEGRTPE FSTIIPHLVV TEDTDEDAPL VPDDTSDSGY GTLIPGTPTG SRSPLSRLRQ RALRRDPRLT FSTLELRDIP LRPHPPDPQA PQRRSAPELP EGILKGGSLP

	QEDPPTWSEE EDGASERGNV VVETLHRARL RGQLPSSPTH ADSAGESPWE SSGEEEEEGP LFLKAGHTSL RPMRAEDMLR EIREELASQR IEGAEEPRDS RPRKLTRAQL QRMRGPHIIQ LDTPLSASEV **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:	PLEKHG6
Alternative Name:	PLEKHG6 (PLEKHG6 Products)
Background:	Pleckstrin homology domain-containing family G member 6 (PH domain-containing family G member 6) (Myosin-interacting guanine nucleotide exchange factor) (MyoGEF),FUNCTION: Guanine nucleotide exchange factor activating the small GTPase RHOA, which, in turn, induces myosin filament formation. Also activates RHOG. Does not activate RAC1, or to a much lower extent than RHOA and RHOG. Part of a functional unit, involving PLEKHG6, MYH10 and RHOA, at the cleavage furrow to advance furrow ingression during cytokinesis. In epithelial cells, required for the formation of microvilli and membrane ruffles on the apical pole. Along with EZR, required for normal macropinocytosis. {ECO:0000269|PubMed:16721066, ECO:0000269|PubMed:17881735}.
Molecular Weight:	89.0 kDa
UniProt:	Q3KR16

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