Datasheet for ABIN3096061

TTLL5 Protein (AA 1-1281) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	TTLL5
Protein Characteristics:	AA 1-1281
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This TTLL5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MPIVMARDLE ETASSSEDEE VISQEDHPCI MWTGGCRRIP VLVFHADAIL TKDNNIRVIG ERYHLSYKIV RTDSRLVRSI LTAHGFHEVH PSSTDYNLMW TGSHLKPFLL RTLSEAQKVN HFPRSYELTR KDRLYKNIIR MQHTHGFKAF HILPQTFLLP AEYAEFCNSY SKDRGPWIVK PVASSRGRGV YLINNPNQIS LEENILVSRY INNPLLIDDF KFDVRLYVLV TSYDPLVIYL YEEGLARFAT VRYDQGAKNI RNQFMHLTNY SVNKKSGDYV SCDDPEVEDY GNKWSMSAML RYLKQEGRDT TALMAHVEDL IIKTIISAEL AIATACKTFV PHRSSCFELY GFDVLIDSTL KPWLLEVNLS PSLACDAPLD LKIKASMISD MFTVVGFVCQ DPAQRASTRP IYPTFESSRR NPFQKPQRCR PLSASDAEMK NLVGSAREKG PGKLGGSVLG LSMEEIKVLR RVKEENDRRG GFIRIFPTSE TWEIYGSYLE HKTSMNYMLA TRLFQDRMTA DGAPELKIES LNSKAKLHAA LYERKLLSLE VRKRRRRSSR LRAMRPKYPV ITQPAEMNVK TETESEEEEE VALDNEDEEQ EASQEESAGF LRENQAKYTP SLTALVENTP KENSMKVREW NNKGGHCCKL ETQELEPKFN

LMQILQDNGN LSKMQARIAF SAYLQHVQIR LMKDSGGQTF SASWAAKEDE QMELVVRFLK RASNNLQHSL RMVLPSRRLA LLERRRILAH QLGDFIIVYN KETEQMAEKK SKKKVEEEEE DGVNMENFQE FIRQASEAEL EEVLTFYTQK NKSASVFLGT HSKISKNNNN YSDSGAKGDH PETIMEEVKI KPPKQQQTTE IHSDKLSRFT TSAEKEAKLV YSNSSSGPTA TLQKIPNTHL SSVTTSDLSP GPCHHSSLSQ IPSAIPSMPH QPTILLNTVS ASASPCLHPG AQNIPSPTGL PRCRSGSHTI GPFSSFQSAA HIYSQKLSRP SSAKAGSCYL NKHHSGIAKT QKEGEDASLY SKRYNQSMVT AELQRLAEKQ AARQYSPSSH INLLTQQVTN LNLATGIINR SSASAPPTLR PIISPSGPTW STQSDPQAPE NHSSSPGSRS LQTGGFAWEG EVENNVYSQA TGVVPQHKYH PTAGSYQLQF ALQQLEQQKL QSRQLLDQSR ARHQAIFGSQ TLPNSNLWTM NNGAGCRISS ATASGQKPTT LPQKVVPPPS SCASLVPKPP PNHEQVLRRA TSQKASKGSS AEGQLNGLQS SLNPAAFVPI TSSTDPAHTK I

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 -

Product Details

	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:	TTLL5
Alternative Name:	TTLL5 (TTLL5 Products)
Background:	Tubulin polyglutamylase TTLL5 (EC 6.3.2.-) (SRC1 and TIF2-associated modulatory protein) (STAMP protein) (Tubulin--tyrosine ligase-like protein 5),FUNCTION: Polyglutamylase which modifies tubulin, generating polyglutamate side chains on the gamma-carboxyl group of specific glutamate residues within the C-terminal tail of tubulin. Preferentially mediates ATP-dependent initiation step of the polyglutamylation reaction over the elongation step. Preferentially modifies the alpha-tubulin tail over a beta-tail (By similarity). Required for CCSAP localization to both polyglutamylated spindle and cilia microtubules (PubMed:22493317). Increases the effects of transcriptional coactivator NCOA2/TIF2 in glucocorticoid receptor-mediated repression and induction and in androgen receptor-mediated induction (PubMed:17116691). {ECO:0000250|UniProtKB:Q8CHB8, ECO:0000269|PubMed:17116691, ECO:0000269|PubMed:22493317}.
Molecular Weight:	143.6 kDa
UniProt:	Q6EMB2

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

Application Details

	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