Datasheet for ABIN3135132

RLTPR Protein (AA 1-1296) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	RLTPR
Protein Characteristics:	AA 1-1296
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RLTPR protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAQTPDDISC ELRGEITRFL WPKEAELLLK TWLPQEGAEQ SHILALLRWR AYLLHTCLPL RVDCTFSYLE VQAMALQETP PRVTFELESL PELVLEFPCV AALEQLAQHV AAAIKKVFPR STLGKLFRKP TPSSLLARLE RSHPLESTIP SSPCGGFLET YEALCDYNGF PFREEIQWDV DTIYHRQGCR HFCLGDFSHF GSRDLALSVA ALSYNLWFRR LSCEDMKLSL EVSEQILHMT SQSSYLEELV LEACGLRGDF VRRLAQALAG HFNSGLRELS LSGNLLDDRG MRALGRALAT NATFDSTLTH LDLSGNPGAL GPSQDSGGLY TFLSRPNVLA YLNLAGTDAT LGTLFTALAG GCCSSLTHLE ASRNIFSRMK SQAAPAALQR FLGGTRMLRH LGLAGCKLPP EALRALLEGL ALNTQIHDLH LDLSACELRS VGAQVIQDLV CDAGALSSLD LSDNGFGSDM VTLVLAIGRS RSLKHVALGR NFNVRCKETL DDVLHRIAQL MQDDDCPLQS LSVAESRLKQ GASILIRALG TNPKLTALDI SGNAIGDAGA KMLAKALRVN TRLRSVIWDR NNTSALGLLD VAQALEQNHS LKSMPLPLND VTQAHRSRPE LTTRAVHQIQ ACLWRNNQVD STSDLKPCLQ PLGLISDHSE

QEVNELCQSV QEHMELLGCG AGPQGEVAVH QAEDAIQNAN FSLSILPILY EAGRSPSHHW QLQQKLESLL GQVGEICRQD IQDFTQTTLD TTRSLCPQML QTPGWRKQLE GVLVGSGGLP ELLPEHLLQD AFSRLRDMRL SITGTLAESI VAQALAGLHA ARDRLVERLT QQAPVTMAPA VPPLGGNELS PLETGGLEEL FFPTEKEEER EKVLLRKRNG TPSWQLRGKM QSRRLGRLHA VAEKHWAAGP RDTPASAVYQ RVDVCVGWVP PALLQEGNGL TARVDEGVEE FFSKRLIQQD HFWAPEEDPA TEGGATPVPR TLRKKLGTLF AFKKPRSTRG PRPDLETSPG AAARARKSTL GDLLRPPARP GRGEEPGGAE GGTSSPDPAR RNRPRYTRES KAYSMILLPA EEEAAVGTRP DKRRPLERGD TELAPSFEQR VQVMLQRIGV SRASGGAESK RKQSKDGEIK KAGSDGDIMD SSTETPPISI KSRTHSVSAD PSCRPGPGGQ GPESATWKTL GQQLNAELRG RGWGQQDGPG PPSPCPSPSP RRTSPAPDIL SLPEDPCLGP RNEERPLRLQ RSPVLKRRPK LEAPPSPSLG SGLGSKPLPP YPTEPSSPER SPPSPATDQR GGGPNP

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:	RLTPR
Alternative Name:	Carmil2 (RLTPR Products)
Background:	Capping protein, Arp2/3 and myosin-I linker protein 2 (Capping protein regulator and myosin 1 linker 2) (F-actin-uncapping protein RLTPR) (Leucine-rich repeat-containing protein 16C) (RGD, leucine-rich repeat, tropomodulin and proline-rich-containing protein),FUNCTION: Cell membrane-cytoskeleton-associated protein that plays a role in the regulation of actin polymerization at the barbed end of actin filaments. Prevents F-actin heterodimeric capping protein (CP) activity at the leading edges of migrating cells, and hence generates uncapped barbed ends and enhances actin polymerization. Plays a role in cell protrusion formations, involved in cell polarity, lamellipodial assembly, membrane ruffling and macropinosome formations. Involved as well in cell migration and invadopodia formation during wound healing (By similarity). Required for CD28-mediated stimulation of NF-kappa-B signaling, involved in naive T cells activation, maturation into T memory cells, and differentiation into T helper cells (PubMed:27647348). Required for CD28-mediated differentiation of T regulatory cells (By similarity). {ECO:0000250|UniProtKB:Q6F5E8, ECO:0000269|PubMed:27647348}.
Molecular Weight:	141.4 kDa
UniProt:	Q3V3V9

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 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