Datasheet for ABIN3094973

RECQL4 Protein (AA 1-1208) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RECQL4
Protein Characteristics:	AA 1-1208
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RECQL4 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MERLRDVRER LQAWERAFRR QRGRRPSQDD VEAAPEETRA LYREYRTLKR TTGQAGGGLR SSESLPAAAE EAPEPRCWGP HLNRAATKSP QSTPGRSRQG SVPDYGQRLK ANLKGTLQAG PALGRRPWPL GRASSKASTP KPPGTGPVPS FAEKVSDEPP QLPEPQPRPG RLQHLQASLS QRLGSLDPGW LQRCHSEVPD FLGAPKACRP DLGSEESQLL IPGESAVLGP GAGSQGPEAS AFQEVSIRVG SPQPSSSGGE KRRWNEEPWE SPAQVQQESS QAGPPSEGAG AVAVEEDPPG EPVQAQPPQP CSSPSNPRYH GLSPSSQARA GKAEGTAPLH IFPRLARHDR GNYVRLNMKQ KHYVRGRALR SRLLRKQAWK QKWRKKGECF GGGGATVTTK ESCFLNEQFD HWAAQCPRPA SEEDTDAVGP EPLVPSPQPV PEVPSLDPTV LPLYSLGPSG QLAETPAEVF QALEQLGHQA FRPGQERAVM RILSGISTLL VLPTGAGKSL CYQLPALLYS RRSPCLTLVV SPLLSLMDDQ VSGLPPCLKA ACIHSGMTRK QRESVLQKIR AAQVHVLMLT PEALVGAGGL PPAAQLPPVA FACIDEAHCL SQWSHNFRPC YLRVCKVLRE RMGVHCFLGL TATATRRTAS DVAQHLAVAE

EPDLHGPAPV PTNLHLSVSM DRDTDQALLT LLQGKRFQNL DSIIIYCNRR EDTERIAALL RTCLHAAWVP GSGGRAPKTT AEAYHAGMCS RERRRVQRAF MQGQLRVVVA TVAFGMGLDR PDVRAVLHLG LPPSFESYVQ AVGRAGRDGQ PAHCHLFLQP QGEDLRELRR HVHADSTDFL AVKRLVQRVF PACTCTCTRP PSEQEGAVGG ERPVPKYPPQ EAEQLSHQAA PGPRRVCMGH ERALPIQLTV QALDMPEEAI ETLLCYLELH PHHWLELLAT TYTHCRLNCP GGPAQLQALA HRCPPLAVCL AQQLPEDPGQ GSSSVEFDMV KLVDSMGWEL ASVRRALCQL QWDHEPRTGV RRGTGVLVEF SELAFHLRSP GDLTAEEKDQ ICDFLYGRVQ ARERQALARL RRTFQAFHSV AFPSCGPCLE QQDEERSTRL KDLLGRYFEE EEGQEPGGME DAQGPEPGQA RLQDWEDQVR CDIRQFLSLR PEEKFSSRAV ARIFHGIGSP CYPAQVYGQD RRFWRKYLHL SFHALVGLAT EELLQVAR

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!

Product Details

	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:	RECQL4
Alternative Name:	RECQL4 (RECQL4 Products)
Background:	ATP-dependent DNA helicase Q4 (EC 5.6.2.4) (DNA 3'-5' helicase RecQ4) (DNA helicase, RecQ-like type 4) (RecQ4) (RTS) (RecQ protein-like 4),FUNCTION: An ATP-dependent DNA helicase which unwinds dsDNA with a 3'-overhang in a 3'-5' direction (PubMed:28653661). Does not unwind more than 18 bp of dsDNA (PubMed:28653661). May modulate chromosome segregation. The N-terminal domain (residues 1-54) binds DNA Y-shaped DNA better than ss- or dsDNA (PubMed:22730300). The core helicase domain binds ssDNA (PubMed:28653661, PubMed:22730300). {ECO:0000269|PubMed:15317757, ECO:0000269|PubMed:22730300, ECO:0000269|PubMed:28653661}.
Molecular Weight:	133.1 kDa
UniProt:	O94761
Pathways:	Chromatin Binding

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

Application Details

	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