

Datasheet for ABIN3135893

RECQL4 Protein (AA 1-1216) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	RECQL4
Protein Characteristics:	AA 1-1216
Origin:	Mouse
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:	<p>MERLATVRAR LQEWERAFAR LHGRRPAKGD VEAAPETRA LYREYRNLKQ AVRQADDRHR</p> <p>VLEQSLAEAA EEAQEPSCWG PHLSRAATQN TQSMPKQSL SSVQDYGKRL KANLKNTTQT</p> <p>GPTQSRKLQL QKRSLSTVPA PRPPGSKTES PCPDEADDAL PRVPEPRPRL GQLQQLRSSL</p> <p>SRRLTSLDPG WLERCHNRVS DLLEVPGACG LDLSAEESQP QMSGKVNIAD PDIQSEVSVQ</p> <p>SPEAIAQQPA QVLSQSPKSI NSKGRKRKWN EKGEDFAQDQ PSSGAGPLSE GARATVHGQD</p> <p>PPGEPTQVNV PQPCNSSNQA RTEKAKGTTH LHASRPASL DRGNYIRLNM KNKRFVRVGA</p> <p>NRGRLLRKQV WKQKWKKKQA AFGGSGPRAT DKDTCFRCGQ FGHWASQCSQ PGPTLTVQEE</p> <p>GDRDDKQPIS TLEEVAQRTG TASCHHSCEE TQPAAPQLV PHCPTMSPL YPPGPLGQVA</p> <p>ETPAEVFQAL ERLGYAFRP GGERAIMRIL SGISTLLVLP TGAGKSLCYQ LPALLYAQRS</p> <p>PCLTLVVSPL LSLMDDQVSD LPSCAKAACL HSGMTKKQRE SVLKKVRAAQ VHVLIVSPEA</p> <p>LVGCGARGPG SLPQAAQLPP IAFACIDEVH CLSQWSHNFR PCYLRVCKVL REHMGVRCFL</p>

GLTATATRST ARDVAQHLGI AGEFELSGSA NIPANLHLSV SMDRSDQAL VTLLQGDRFR
TLDSVIIYCT RERIQNGWLA LLRTCLSMVG DSRPRGCGPE AIAEAYHAGM SSQERRRVQQ
AFMRGHLRMV VATVAFGMGL DRPDVRAVLH LGLPPSFESY VQAIGRAGRDK GPAHCHLFM
HPQGEDLWEL RRHAHADSTD FLAVKRLVQR VFPPCTCSQR PVSKSSPEEV KEHSGQQTYP
VLGQACLGHE RALPVQSTVQ ALDMTEEAIE TLLCYLELHP RHWLELLPWT YAQCHLHCLG
GSAQLQALAH RCPPLAACQA KWPPKDTSGG RSSLEFGVVE LADSMGWKLA SVRQALHQLK
WDPEPKKGAA QGTGVLVKFS ELAFHLHSRG DLTDEEKDQI CDFLYNRVQA REHKALAHLLH
QMSKAFRSVA FPSCGPCLEQ SNEEHSNQVK TLVSYYFEEE EEEEETMTDT QGPKPGQTQL
QDWEDQIRRD VRQLLSLRPE ERFSGRAVAR IFHGIASPCY PAQVYGLDRR FWRKYLHLDF
HALMHLATEE LLLRGR

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) (RecQ protein-like 4),FUNCTION: An ATP-dependent DNA helicase which unwinds dsDNA with a 3'-overhang in a 3'-5' direction (By similarity). May play a role in development of the palate and the limbs. May modulate chromosome segregation. {ECO:0000250 UniProtKB:O94761, ECO:0000269 PubMed:12915449, ECO:0000269 PubMed:15703196}.
Molecular Weight:	135.1 kDa
UniProt:	Q75NR7
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 even the most difficult-to-express proteins, including those that require post-translational modifications.

Application Details

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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