Datasheet for ABIN3090157

RNF20 Protein (AA 1-975) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	RNF20
Protein Characteristics:	AA 1-975
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF20 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSGIGNKRAA GEPGTSMPPE KKAAVEDSGT TVETIKLGGV SSTEELDIRT LQTKNRKLAE MLDQRQAIED ELREHIEKLE RRQATDDASL LIVNRYWSQF DENIRIILKR YDLEQGLGDL LTERKALVVP EPEPDSDSNQ ERKDDRERGE GQEPAFSFLA TLASSSSEEM ESQLQERVES SRRAVSQIVT VYDKLQEKVE LLSRKLNSGD NLIVEEAVQE LNSFLAQENM RLQELTDLLQ EKHRTMSQEF SKLQSKVETA ESRVSVLESM IDDLQWDIDK IRKREQRLNR HLAEVLERVN SKGYKVYGAG SSLYGGTITI NARKFEEMNA ELEENKELAQ NRLCELEKLR QDFEEVTTQN EKLKVELRSA VEQVVKETPE YRCMQSQFSV LYNESLQLKA HLDEARTLLH GTRGTHQHQV ELIERDEVSL HKKLRTEVIQ LEDTLAQVRK EYEMLRIEFE QTLAANEQAG PINREMRHLI SSLQNHNHQL KGEVLRYKRK LREAQSDLNK TRLRSGSALL QSQSSTEDPK DEPAELKPDS EDLSSQSSAS KASQEDANEI KSKRDEEERE RERREKERER ERERERERER EREKQKLKES EKERDSAKDK EKGKHDDGRK KEAEIIKQLK IELKKAQESQ KEMKLLLDMY RSAPKEQRDK

VQLMAAEKKS KAELEDLRQR LKDLEDKEKK ENKKMADEDA LRKIRAVEEQ IEYLQKKLAM AKQEEEALLS EMDVTGQAFE DMQEQNIRLM QQLREKDDAN FKLMSERIKS NQIHKLLKEE KEELADQVLT LKTQVDAQLQ VVRKLEEKEH LLQSNIGTGE KELGLRTQAL EMNKRKAMEA AQLADDLKAQ LELAQKKLHD FQDEIVENSV TKEKDMFNFK RAQEDISRLR RKLETTKKPD NVPKCDEILM EEIKDYKARL TCPCCNMRKK DAVLTKCFHV FCFECVKTRY DTRQRKCPKC NAAFGANDFH RIYIG

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.

Product Details

- 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:	RNF20
Alternative Name:	RNF20 (RNF20 Products)
Background:	E3 ubiquitin-protein ligase BRE1A (BRE1-A) (hBRE1) (EC 2.3.2.27) (RING finger protein 20) (RING-type E3 ubiquitin transferase BRE1A),FUNCTION: Component of the RNF20/40 E3 ubiquitin-protein ligase complex that mediates monoubiquitination of 'Lys-120' of histone H2B (H2BK120ub1). H2BK120ub1 gives a specific tag for epigenetic transcriptional activation and is also prerequisite for histone H3 'Lys-4' and 'Lys-79' methylation (H3K4me and H3K79me, respectively). It thereby plays a central role inb histone code and gene regulation. The RNF20/40 complex forms a H2B ubiquitin ligase complex in cooperation with the E2 enzyme UBE2A or UBE2B, reports about the cooperation with UBE2E1/UBCH are contradictory. Required for transcriptional activation of Hox genes. Recruited to the MDM2 promoter, probably by being recruited by p53/TP53, and thereby acts as a transcriptional coactivator. Mediates the polyubiquitination of isoform 2 of PA2G4 in cancer cells leading to its proteasome-mediated degradation. {ECO:0000269|PubMed:16307923, ECO:0000269|PubMed:16337599, ECO:0000269|PubMed:19037095, ECO:0000269|PubMed:19410543}., FUNCTION: (Microbial infection) Promotes the human herpesvirus 8 (KSHV) lytic cycle by inducing the expression of lytic viral genes including the latency switch gene RTA/ORF50. {ECO:0000269|PubMed:37888983}.
Molecular Weight:	113.7 kDa
UniProt:	Q5VTR2

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