

Datasheet for ABIN3087439

RNF25 Protein (AA 1-459) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	RNF25
Protein Characteristics:	AA 1-459
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RNF25 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MAASASAAAG EEDWVLPSEV EVLESIYLDE LQVIKGNRT SPWEIYITLH PATAEDQDSQ YVCFTLVLPV PAEYPHEVPQ ISIRNPRGLS DEQIHTILQV LGHVAKAGLG TAMLYELIEK GKEILTDNNI PHGQCVCICLY GFQKEAFTK TPCYHYFHCH CLARYIQHME QELKAQGGEQ EQERQHATTK QKAVGVQCPV CREPLVYDLA SLKAAPEPQQ PMELYQPSAE SLRQQEERKR LYQRQQRGG IIDLEAERNR YFISLQPPA PAEPESAVDV SKGSQPPSTL AAELSTSPAV QSTLPPPLPV ATQHICEKIP GTRSNQQLRG ETQKAMLDPP KPSRGPWRQP ERRHPKGGEK HAPKGTRDTQ ELPPPEGPLK EPMDLKPEPH SQGVEGPPQE KGPGSWQGPP PRRTRDCVRW ERSKGRTPGS SYPRLPRGQG AYRPGTRRES LGLESKDGS</p> <p>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.</p>

Product Details

Characteristics:	<div>Key Benefits:</div> <ul style="list-style-type: none">• 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). <p>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.</p> <p>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.</p> <div>Expression System:</div> <ul style="list-style-type: none">• ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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! <div>Concentration:</div> <ul style="list-style-type: none">• 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:	RNF25
Alternative Name:	RNF25 (RNF25 Products)
Background:	<p>E3 ubiquitin-protein ligase RNF25 (EC 2.3.2.27) (RING finger protein 25) (RING finger protein A07),FUNCTION: E3 ubiquitin-protein ligase that plays a key role in the RNF14-RNF25 translation quality control pathway, a pathway that takes place when a ribosome has stalled during translation, and which promotes ubiquitination and degradation of translation factors on stalled ribosomes (PubMed:36638793, PubMed:37651229, PubMed:37951216). Catalyzes ubiquitination of RPS27A in response to ribosome collisions, promoting activation of RNF14 (PubMed:36638793). RNF25 catalyzes ubiquitination of other ribosomal proteins on stalled ribosomes, such as RPL0, RPL1, RPL12, RPS13 and RPS17 (PubMed:36638793). Also involved in ubiquitination and degradation of stalled ETF1/eRF1 (PubMed:36638793, PubMed:37651229). Independently of its function in the response to stalled ribosomes, mediates ubiquitination and subsequent proteasomal degradation of NKD2 (By similarity). May also stimulate transcription mediated by NF-kappa-B via its interaction with RELA/p65 (PubMed:12748188). {ECO:0000250 UniProtKB:Q9QZR0, ECO:0000269 PubMed:12748188, ECO:0000269 PubMed:36638793, ECO:0000269 PubMed:37651229, ECO:0000269 PubMed:37951216}.</p>
Molecular Weight:	51.2 kDa
UniProt:	Q96BH1

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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</p>

Application Details

	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