Datasheet for ABIN3095007

RENT2/UPF2 Protein (AA 1-1272) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	RENT2/UPF2 (UPF2)
Protein Characteristics:	AA 1-1272
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This RENT2/UPF2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MPAERKKPAS MEEKDSLPNN KEKDCSERRT VSSKERPKDD IKLTAKKEVS KAPEDKKKRL EDDKRKKEDK ERKKKDEEKV KAEEESKKKE EEEKKKHQEE ERKKQEEQAK RQQEEEAAAQ MKEKEESIQL HQEAWERHHL RKELRSKNQN APDSRPEENF FSRLDSSLKK NTAFVKKLKT ITEQQRDSLS HDFNGLNLSK YIAEAVASIV EAKLKISDVN CAVHLCSLFH QRYADFAPSL LQVWKKHFEA RKEEKTPNIT KLRTDLRFIA ELTIVGIFTD KEGLSLIYEQ LKNIINADRE SHTHVSVVIS FCRHCGDDIA GLVPRKVKSA AEKFNLSFPP SEIISPEKQQ PFQNLLKEYF TSLTKHLKRD HRELQNTERQ NRRILHSKGE LSEDRHKQYE EFAMSYQKLL ANSQSLADLL DENMPDLPQD KPTPEEHGPG IDIFTPGKPG EYDLEGGIWE DEDARNFYEN LIDLKAFVPA ILFKDNEKSC QNKESNKDDT KEAKESKENK EVSSPDDLEL ELENLEINDD TLELEGGDEA EDLTKKLLDE QEQEDEEAST GSHLKLIVDA FLQQLPNCVN RDLIDKAAMD FCMNMNTKAN RKKLVRALFI VPRQRLDLLP FYARLVATLH PCMSDVAEDL CSMLRGDFRF HVRKKDQINI ETKNKTVRFI GELTKFKMFT KNDTLHCLKM LLSDFSHHHI EMACTLLETC GRFLFRSPES

HLRTSVLLEQ MMRKKQAMHL DARYVTMVEN AYYYCNPPPA EKTVKKKRPP LQEYVRKLLY KDLSKVTTEK VLRQMRKLPW QDQEVKDYVI CCMINIWNVK YNSIHCVANL LAGLVLYQED VGIHVVDGVL EDIRLGMEVN QPKFNQRRIS SAKFLGELYN YRMVESAVIF RTLYSFTSFG VNPDGSPSSL DPPEHLFRIR LVCTILDTCG QYFDRGSSKR KLDCFLVYFQ RYVWWKKSLE VWTKDHPFPI DIDYMISDTL ELLRPKIKLC NSLEESIRQV QDLEREFLIK LGLVNDKDSK DSMTEGENLE EDEEEEEGGA ETEEQSGNES EVNEPEEEEG SDNDDDEGEE EEEENTDYLT DSNKENETDE ENTEVMIKGG GLKHVPCVED EDFIQALDKM MLENLQQRSG ESVKVHQLDV AIPLHLKSQL RKGPPLGGGE GEAESADTMP FVMLTRKGNK QQFKILNVPM SSQLAANHWN QQQAEQEERM RMKKLTLDIN ERQEQEDYQE MLQSLAQRPA PANTNRERRP RYQHPKGAPN ADLIFKTGGR RR

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!

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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:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Target Details

Target:	RENT2/UPF2 (UPF2)
Alternative Name:	UPF2 (UPF2 Products)
Background:	Regulator of nonsense transcripts 2 (Up-frameshift suppressor 2 homolog) (hUpf2),FUNCTION: Involved in nonsense-mediated decay (NMD) of mRNAs containing premature stop codons by associating with the nuclear exon junction complex (EJC). Recruited by UPF3B associated with the EJC core at the cytoplasmic side of the nuclear envelope and the subsequent formation of an UPF1-UPF2-UPF3 surveillance complex (including UPF1 bound to release factors at the stalled ribosome) is believed to activate NMD. In cooperation with UPF3B stimulates both ATPase and RNA helicase activities of UPF1. Binds spliced mRNA. {ECO:0000269|PubMed:11163187, ECO:0000269|PubMed:16209946, ECO:0000269|PubMed:18066079}.
Molecular Weight:	147.8 kDa
UniProt:	Q9HAU5

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

Application Details

	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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)