

Datasheet for ABIN3095007  
**RENT2/UPF2 Protein (AA 1-1272) (Strep Tag)**



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1 Image

Overview

Quantity:	1 mg
Target:	RENT2/UPF2 (UPF2)
Protein Characteristics:	AA 1-1272
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
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 MEEKDSLNN KEKDCSERRT VSSKERPKDD IKLTAKKEVS KAPEDKKKRL EDDKRKKEDK ERKKKDEEKV KAEESKKE EEEKKKHQEE ERKKQEEQAK RQEEEEAAQ MKEKEESIQL HQEAWERHHL RKELRSKNQN APDSRPEENF FSRLDSSLK NTAFVKKLKT ITEQQRDSLS HDFNGLNLSK YIAEAVASIV EAKLKISDVN CAVHLCSLFH QRYADFAPSL LQVWKKHFEA RKEEKPNT KLRTDLRFIA ELTIVGIFTD KEGLSLIYEQ LKNIINADRE SHTHVSVIS FCRHCGDDIA GLVPRKVKSA AEKFNLSFPP SEISPEKQ PFQNLKEYF TSLTKHLKRD HRELQNTERQ NRRILHSKGE LSEDRHKQYE EFAMSYQKLL ANSQLADLL DENMPDLPQD KPTPEEHGPG IDIFTPGKPG EYDLEGGIWE DEDARNFYEN LIDLKAFVPA ILFKDNEKSC QNKESNKDDT KEAKESKENK EVSSPDLEL ELENLEINDD TLELEGGDEA EDLTKKLLDE QEQEDEEAST GSHLKLIVDA FLQQLPNCVN RDLIDKAAMD FCMNMNTKAN RKKLVRALFI VPRQRDLLP FYARLVATLH PCMSDVAEDL CSMLRGDFRF HVRKKDQINI ETKNKTVRFI GELTKFKMFT KNDTLHCLKM LLSDFSHHHI EACTLLETG GRFLFRSPES
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HLRTSVLLEQ MMRKKQAMHL DARYVTMVEN AYYYYCNPPPA EKTVKKKRPP LQEYVRKLLY  
KDSLKVTTEK VLRQMRKLPW QDQEVKDYVI CCMINIWNVK YNSIHCVANL LAGLVLYQED  
VGIHVVDGVL EDIRLGMEVN QPKFNQRRIS SAKFLGELYN YRMVESAVIF RTLYSFTSFG  
VNPDGSPSSL DPPEHLFRIR LVCTILDTCG QYFDRGSSKR KLDCFLVYFQ RYVWWKKSLE  
VWTKDHPFPI DIDYMISDTL ELLRPKIKLC NSLEESIRQV QDLEREFLLIK LGLVNDKDSK  
DSMTEGENLE EDEEEEEGGA ETEEQSGNES EVNEPEEEEE SDNDDDEGEE EEEENTDYLT  
DSNKENETDE ENTEVMIKGG GLKHVPCVED EDFIQALDKM MLENLQQRSG ESVKVHQLDV  
AIPLHLKSQL RKGPPGGGE 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.**

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### Characteristics:

#### Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 -

## Product Details

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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 in several dilutions and is measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALICE®): <ol style="list-style-type: none"><li>1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.</li><li>2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.</li></ol>
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

## Target Details

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Target:	RENT2/UPF2 (UPF2)
Alternative Name:	UPF2 ( <a href="#">UPF2 Products</a> )
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:	<a href="#">Q9HAU5</a>

## Application Details

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**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.

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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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**Restrictions:** For Research Use only

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## Handling

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**Format:** Liquid

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**Buffer:** The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

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**Handling Advice:** Avoid repeated freeze-thaw cycles.

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**Storage:** -80 °C

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**Storage Comment:** Store at -80°C.

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**Expiry Date:** Unlimited (if stored properly)

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**Image 1.** „Crystallography Grade“ protein due to multi-step, protein-specific purification process