

Datasheet for ABIN3131023

## OTUD7B Protein (AA 1-840) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	OTUD7B
Protein Characteristics:	AA 1-840
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This OTUD7B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MTLDMDAVLS DFVRSTGAEP GLARDLLEGK NWDVSAALSD FEQLRQVHAG NLSPPFSGGS</p> <p>TCPKTPEKGG SDREPTRPSR PILQRQDDVI QEKRLSRGIS HASSIVSLA RSHVSSNGGG</p> <p>GGSEHPLEM PICAFQLPDL TVYKEDFRSF IERDLIEQSM LVALEQAGRL NWWVSMDSTC</p> <p>QRLLPLATTG DGNCLLHAAS LGMWGFHDRD LVLRKALYAL MEKGVEKEAL RRRWRWQQTQ</p> <p>QNKESGLVYT EDEWQKEWNE LIKLASSEPR MHLGSNGASG GGVESSEEPV YESLEEFHVF</p> <p>VLAHVLRPI VVVADTMLRD SGGEAFAPIP FGGIYLPLEV PASQCHRSPL VLAYDQAHFS</p> <p>ALVSMEQKES AKEQAVIPLT DSEHKLLPLH FAVDPGKGWE WGKDDNDNVR LASIILSLEV</p> <p>KLHLLHSYMN VKWIPLSSDS QAPLAQPESP TASAGDEPRS TPESGESDKE SVGSSSLGNE</p> <p>GSRRKEKSKR DREKDKKRAD SVANKLGSFG KTLGSKLKKN MGGLMHSKGP KPGGLGSGSG</p> <p>ISSGTETLEK KKKNNTLKSW KGGKEEAAGD GPVSEKPPSE SVGNGGSKYS QEVMQSLSTM</p> <p>RIAMQGEGKY IFVGTLMKMGH RHQYQEEMIQ RYLADAEERF LAEQKQKEVE RKIMNGGLVS</p>

GGPPAKKPEP DGGEDQPSDS PAEPKAMAFS TAYPGGFTIP RPSGGGVHCQ EPRRLAGGP  
CVGGLPSYAT FPRQYPGRPY PHQDNIPALE PGKDGVRHGA LLPPQFRVAD SYSNGYREPP  
EPDGWAGAPR GLPPTQTKCK QPNCSFYGHP ETNNLCSCCY REELRRRERE PGGELLAHRF

**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 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.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression

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## Product Details

	System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	OTUD7B
Alternative Name:	Otud7b ( <a href="#">OTUD7B Products</a> )
Background:	<p>OTU domain-containing protein 7B (EC 3.4.19.12) (Cellular zinc finger anti-NF-kappa-B protein) (Zinc finger A20 domain-containing protein 1) (Zinc finger protein Cezanne),FUNCTION: Negative regulator of the non-canonical NF-kappa-B pathway that acts by mediating deubiquitination of TRAF3, an inhibitor of the NF-kappa-B pathway, thereby acting as a negative regulator of B-cell responses. In response to non-canonical NF-kappa-B stimuli, deubiquitinates 'Lys-48'-linked polyubiquitin chains of TRAF3, preventing TRAF3 proteolysis and over-activation of non-canonical NF-kappa-B (PubMed:23334419). Negatively regulates mucosal immunity against infections (PubMed:23334419). Deubiquitinates ZAP70, and thereby regulates T cell receptor (TCR) signaling that leads to the activation of NF-kappa-B (PubMed:26903241). Plays a role in T cell homeostasis and is required for normal T cell responses, including production of IFNG and IL2 (PubMed:26903241). Mediates deubiquitination of EGFR (By similarity). Has deubiquitinating activity toward 'Lys-11', 'Lys-48' and 'Lys-63'-linked polyubiquitin chains. Has a much higher catalytic rate with 'Lys-11'-linked polyubiquitin chains (in vitro), however the physiological significance of these data are unsure. Hydrolyzes both linear and branched forms of polyubiquitin (By similarity). {ECO:0000250 UniProtKB:Q6GQQ9, ECO:0000269 PubMed:23334419, ECO:0000269 PubMed:26903241}.</p>
Molecular Weight:	92.0 kDa
UniProt:	<a href="#">B2RUR8</a>

## 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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

Application Details

even the most difficult-to-express proteins, including those that require post-translational modifications.

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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 <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months