

Datasheet for ABIN3131078
D7Ert443e Protein (AA 1-644) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	D7Ert443e (D7ERTD443E)
Protein Characteristics:	AA 1-644
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This D7Ert443e protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	<p>MISPVVISRL IDEKKS MENG AILPQAI AQP QLCPTK PALA RRDGVSMHRR FALSPDRLGI LTPSDDQGLE TEPLSTGDNL GKGSHSGFSS ITITARRVGP PASSLVWDTF RDPLCPKCKA KDALFQEPPV LAGDAHLCQH NRPFTCTESP SNGSVEGMKV FQAHSRLSAR QDYWVWHTND NEDSFSSDNS PSRKVPLVFS SCVHFRVSQQ CPNAIYYLDK SLSVPLERPQ IASPKMHRSV LSLSLRCSH QLTADGVDSS ANGEPISTAL SQELSEGKQD LLGPQWGQPQ GGHWKESPAL VPVHLGSGTC PRTGSPPLEN VKFADVGRNQ VPV RKEKEDH ATCTSSSHTN QLSIHIPGWS YRAETKVL SG SKKQQQEAQR TLP AFPVGQK TIKHFPPEGD SSPSSDGQPS ILSESNERQH PYFMIPRVPL PGFYCPLQTG CASLQEDGAV QIETHFPKDY TCCDLVVKLK ECEKNEDPTV TPEPATPS PSTPEGAQSS DPSEDSYEPL LASSMTLQEA LEVHRPQFIS RSQERLQK LK RMVQQRKTQQ KESLGQKQSL LPVRANKKQF TIPHPLSDNL FKPKERCISE KEMHMRSKRI YNNLPEVKKK KEEQKKRMIL QSNRLRAEVF KKQLLDQLLQ RNAV</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.

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.

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).

Product Details

Grade: custom-made

Target Details

Target: D7Ert443e (D7ERTD443E)

Alternative Name: D7Ert443e

Background: (E2-independent) E3 ubiquitin-conjugating enzyme FATS (EC 2.3.2.-) (Centrosomal protein C10orf90 homolog) (E2/E3 hybrid ubiquitin-protein ligase FATS) (Fragile-site associated tumor suppressor homolog) (FATS),FUNCTION: Tumor suppressor that is required to sustain G2/M checkpoint after DNA damage (PubMed:20843368, PubMed:20154723, PubMed:24240685). Acts as a p53/TP53 activator by inhibiting MDM2 binding to p53/TP53 and stimulating non-proteolytic polyubiquitination of p53/TP53. Exhibits ubiquitin ligase (E3) activity and assemble ubiquitin polymers through 'Lys-11'- (K11-), 'Lys-29'- (K29-) and 'Lys-63'- (K63)-linkages, independently of the ubiquitin-conjugating enzyme (E2). Promotes p53/TP53-dependent transcription of CDKN1A/p21, leading to robust checkpoint response (PubMed:24240685). Mediates CDKN1A/p21 protein stability in a ubiquitin-independent manner. Interacts with HDAC1 and prevents binding of HDAC1 to CDKN1A/p21 and facilitates the acetylation and stabilization of CDKN1A/p21 (PubMed:20154723). May have a role in the assembly of primary cilia (By similarity). {ECO:0000250|UniProtKB:Q96M02, ECO:0000269|PubMed:20154723, ECO:0000269|PubMed:20843368, ECO:0000269|PubMed:24240685}.

Molecular Weight: 71.5 kDa

UniProt: [D2J0Y4](#)

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 modifications.

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Application Details

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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 **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