

Datasheet for ABIN3077810
C10ORF90 Protein (AA 1-699) (Strep Tag)



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Overview

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|-------------------------------|---------------------------------------------------|
| Quantity: | 1 mg |
| Target: | C10ORF90 |
| Protein Characteristics: | AA 1-699 |
| Origin: | Human |
| Source: | Tobacco (Nicotiana tabacum) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This C10ORF90 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

Product Details

Sequence: MLKLSGEGLR DSYHSRRDQI ALKNLQSDVT EAKSDFTKET LASQNTKMIS SIVISQMIDE
NKSRENRA SLPLPCAIQSR AHHAQQLAN RSGVNIHRAF ALLPGR LGIP APSDERGPEA
ELPPKEERPC GGPRRG FASI TITARRV GPP ARALVWGTAG DSLCPK CRAE DTLFQAPPAL
ANGAHPGRHQ RSFACTEF SRNSSVRLKVP EAHTGLCERR KYWVTHADDK ETSFSPDTPL
SGKSPLVFSS CVHLRVSQQC PDSIYYVDKS LSVPIEPPQI ASPKMHR SVL SLNLNCSSHR
LTADGVDGLV NREPISEALK QELLEGDQDL VGQRWNPGLQ ESHLKETPSL RRVHLGTGAC
PWGSFPLEN TELANVGANQ VTVRKGEKDH TTHCHASDHA NQLSIHIPGW SYRAVHTKVF
SGSSKRQQGE VCMTVSAPPV EQKPTRHFLP IGDSSPSDDC LSRDLSEPTE RRRHQSF LKPR
ILFPGFLCPL QDVCASLQED NGVQIESKFP KGDYTCCDLV VKIKECKKSE DPTTPEPSPA
APSPAPRDGA GSPGLSEDCS ESQQTPARSL TLQEALVRK PQFISRSQER LKKLEHMVQQ
RKAQRKEDLR QKQSLLPIRT SKKQFTIPHP LSDNLFKPKE RCISEKEMHM RSKRIYDNL P
EVKKKKEEQR KRVILQSNRL RAEVFKKQLL DQLLQRNAV

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 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 - 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.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

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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.
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.

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)

Target Details

Target: C10ORF90

Alternative Name: C10orf90 ([C10ORF90 Products](#))

Background: (E2-independent) E3 ubiquitin-conjugating enzyme FATS (EC 2.3.2.-) (Centrosomal protein C10orf90) (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. 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. 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 (By similarity). May have a role in the assembly of primary cilia (Probable). {ECO:0000250|UniProtKB:D2J0Y4, ECO:0000305|PubMed:20844083}.

Molecular Weight: 77.9 kDa

UniProt: [Q96M02](#)

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.

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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)