Datasheet for ABIN3095973

# TMF1 Protein (AA 1-1093) (Strep Tag)

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## Overview

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| Quantity: | 250 µg |
| Target: | TMF1 |
| Protein Characteristics: | AA 1-1093 |
| Origin: | Human |
| Source: | Cell-free protein synthesis (CFPS) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This TMF1 protein is labelled with Strep Tag. |
| Application: | ELISA, SDS-PAGE (SDS), Western Blotting (WB) |

## Product Details

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| Brand: | AliCE® |
| Sequence: | MSWFNASQLS SFAKQALSQA QKSIDRVLDI QEEEPSIWAE TIPYGEPGIS SPVSGGWDTS TWGLKSNTEP QSPPIASPKA ITKPVRRTVV DESENFFSAF LSPTDVQTIQ KSPVVSKPPA KSQRPEEEVK SSLHESLHIG QSRTPETTES QVKDSSLCVS GETLAAGTSS PKTEGKHEET VNKESDMKVP TVSLKVSESV IDVKTTMESI SNTSTQSLTA ETKDIALEPK EQKHEDRQSN TPSPPVSTFS SGTSTTSDIE VLDHESVISE SSASSRQETT DSKSSLHLMQ TSFQLLSASA CPEYNRLDDF QKLTESCCSS DAFERIDSFS VQSLDSRSVS EINSDDELSG KGYALVPIIV NSSTPKSKTV ESAEGKSEEV NETLVIPTEE AEMEESGRSA TPVNCEQPDI LVSSTPINEG QTVLDKVAEQ CEPAESQPEA LSEKEDVCKT VEFLNEKLEK REAQLLSLSK EKALLEEAFD NLKDEMFRVK EESSSISSLK DEFTQRIAEA EKKVQLACKE RDAAKKEIKN IKEELATRLN SSETADLLKE KDEQIRGLME EGEKLSKQQL HNSNIIKKLR AKDKENENMV AKLNKKVKEL EEELQHLKQV LDGKEEVEKQ HRENIKKLNS MVERQEKDLG RLQVDMDELE EKNRSIQAAL |

DSAYKELTDL HKANAAKDSE AQEAALSREM KAKEELSAAL EKAQEEARQQ QETLAIQVGD LRLALQRTEQ AAARKEDYLR HEIGELQQRL QEAENRNQEL SQSVSSTTRP LLRQIENLQA TLGSQTSSWE KLEKNLSDRL GESQTLLAAA VERERAATEE LLANKIQMSS MESQNSLLRQ ENSRFQAQLE SEKNRLCKLE DENNRYQVEL ENLKDEYVRT LEETRKEKTL LNSQLEMERM KVEQERKKAI FTQETIKEKE RKPFSVSSTP TMSRSSSISG VDMAGLQTSF LSQDESHDHS FGPMPISANG SNLYDAVRMG AGSSIIENLQ SQLKLREGEI THLQLEIGNL EKTRSIMAEE LVKLTNQNDE LEEKVKEIPK LRTQLRDLDQ RYNTILQMYG EKAEEAEELR LDLEDVKNMY KTQIDELLRQ SLS

**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:

## Product Details

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

## Target Details

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| Target: | TMF1 |
| Alternative Name: | TMF1 (TMF1 Products) |
| Background: | TATA element modulatory factor (TMF) (Androgen receptor coactivator 160 kDa protein) (Androgen receptor-associated protein of 160 kDa),FUNCTION: Potential coactivator of the androgen receptor. Mediates STAT3 degradation. May play critical roles in two RAB6-dependent retrograde transport processes: one from endosomes to the Golgi and the other from the Golgi to the ER. This protein binds the HIV-1 TATA element and inhibits transcriptional activation by the TATA-binding protein (TBP). {ECO:0000269\|PubMed:10428808, ECO:0000269\|PubMed:1409643, ECO:0000269\|PubMed:15467733, ECO:0000269\|PubMed:17698061}. |
| Molecular Weight: | 122.8 kDa |
| UniProt: | P82094 |
| Pathways: | Hormone Transport |

## 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. |
| 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. |

## Application Details

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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! |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| Buffer: | The buffer composition is at the discretion of the manufacturer.<br>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 |