

Datasheet for ABIN3094003

MYT1 Protein (AA 1-1121) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MYT1
Protein Characteristics:	AA 1-1121
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYT1 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MSLENEDKRA RTRSKALRGP PETTAADLSC PTPGCTGSGH VRGKYSRHRS LQSCPLAKKR</p> <p>KLEGAEAEHL VSKRKSHPLK LALDEGYGVD SDGSEDTEVK DASVSESEGE TLEGAEAEYS</p> <p>GQDEIHRPET AEGRSPVKSH FGSNPIGSAT ASSKGSYSSY QGIIATSLN LGQIAEETLV</p> <p>EEDLGQAAKP GPGIVHLLQE AEGAASEEG EKGLFIQPED AEEVVEVTTE RSQDLCPQSL</p> <p>EDAASEESSK QKGILSHEEE DEEEEEEEEE EEEDEEEEEEE EEEEEEEEEEE EEEEEEEEEEE</p> <p>EEEEEEAAPD VIFQEDTSHT SAQKAPELRG PESPSPKPEY SVIVEVRSDD DKDEDTHSRK</p> <p>STVTDESEMQ DMMTRGNLGL LEQAIALKAE QVRTVCEPGC PPAEQSQLGL GEPGKAAKPL</p> <p>DTVRKSYYSK DPSRAEKREI KCPTPGCDGT GHVTGLYPHH RSLSGCPHKD RIPPEILAMH</p> <p>ENVLKCPTPG CTGQGHVNSN RNTHRSLSGC PIAAAEKLAK SHEKQQPQTG DPSKSSSNSD</p> <p>RILRPMCFVK QLEVPPYGSY RPNVAPATPR ANLAKELEKF SKVTFDYASF DAQVFGKRML</p> <p>APKIQTSETS PKAFQCFDYS QDAEAAHMAA TAILNLSTRC WEMPENLSTK PQDLPSKSVD</p>

IEVDENGTLDSLMHKHRKRENAFPSSSSCS SSPGVKSPDA SQRHSSTSAP SSSMTSPQSS
QASRQDEWDR PLDYTKPSRL REEEPEESEP AAHSFASSEADQEVSEENF EERKYPGEVT
LTNFKLKFLSKDIKKELLTC PTPGCDGSGHITGNYASHRS LSGCPLADKS LRNLMAAHSA
DLKCPTPGCD GSGHITGNYA SHRSLSGCPR AKKSGVKVAP TKDDKEDPEL MKCPVPGCVG
LGHISGKYAS HRSASGCPLA ARRQKEGSLN GSSFSWWSLK NEGPTCPTPG CDGSGHANGS
FLTHRSLSGC PRATFAGKKG KLSGDEVLSKFKTSDVLEN DEEIKQLNQEIRDLNESNSE
MEAMVQLQS QISSMEKNLK NIEEENKLIE EQNEALFLEL SGLSQALIQS LANIRLPHME
PICEQNFDAY VSTLTDMYSN QDPENKDLLE SIKQAVRGIQ V

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.

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

Target: MYT1

Alternative Name: MYT1 ([MYT1 Products](#))

Background: Myelin transcription factor 1 (MyT1) (Myelin transcription factor I) (MyTI) (PLPB1) (Proteolipid protein-binding protein),FUNCTION: Binds to the promoter region of genes encoding proteolipid proteins of the central nervous system. May play a role in the development of neurons and oligodendroglia in the CNS. May regulate a critical transition point in oligodendrocyte lineage development by modulating oligodendrocyte progenitor proliferation relative to terminal differentiation and up-regulation of myelin gene transcription.
{ECO:0000269|PubMed:14962745}.

Molecular Weight: 122.3 kDa

UniProt: [Q01538](#)

Pathways: [Cell Division Cycle](#)

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.

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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