



[Go to Product page](#)

Datasheet for ABIN3094003

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

Overview

Quantity:	1 mg
Target:	MYT1
Protein Characteristics:	AA 1-1121
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYT1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Sequence: MSLNEDKRA RTRSKALRGP PETTAADLSC PTPGCTGSGH VRGKYSRHRS LQSCPLAKKR
KLEGAEAEHL VSKRKSHPLK LALDEGYGVD SDGSEDTEVK DASVDESEG TLEGAEAEYS
GQDEIHRPET AEGRSPVKSH FGSNPIGSAT ASSKGSYSSY QGIIATSLN LGQIAEETLV
EEDLGQAAPK GPGIVHLLQE AAEGAASEEG EKGLFIQPED AEEVVEVTTE RSQDLCPQSL
EDAASEESSK QKGILSHEEE DEEEEEEEEE EEEDEEEEE EEEEEEEEE EEEEEEEEE
EEEEEEAAPD VIFQEDTSH SAQKAPELRG PESPSKPEY SVIVEVRSD DKDEDTHSRK
STVTDESEM QDMMTRGNLGL LEQAIALKAE QVRTVCEPGC PPAEQSQLGL GEPGKAAKPL
DTVRKSYSK DPSRAEKREI KCPTPGCDGT GHVTGLYPHH RSLSGCPHKD RIPPEILAMH
ENVLKCPTPG CTGQGHVNSN RNTHRSLSGC PIAAAEKLA SHEKQQPQTG DPSKSSNSD
RILRPMCFVK QLEVPPYGSY RPNVAPATPR ANLAKELEKF SKVTFDYASF DAQVFGKRML
APKIQTSETS PKAFQCFDYS QDAEAAHMAA TAILNLSTRC WEMPENLSTK PQDLPSKSD
IEVDENGLD LSMHKHRKRE NAFPSSSSCS SSPGVKSPDA SQRHSSTAP SSSMTSPQSS

QASRQDEWDR PLDYTKPSRL REEEPEESEP AAHSFASSE A DDQEVSEENF EERKYPGEVT
LTNFKLKFLS KDIKKELLTC PTPGCDGSGH ITGNYASHRS LSGCPLADKS LRNLMAAHS A
DLKCPTPGCD GSGHITGNYA SHRSLSGCPR AKKSGVKVAP TKDDKEDPEL MKCPVPGCVG
LGHISGKYAS HRSASGCPLA ARRQKEGSLN GSSFSWWSLK NEGPTCPTPG CDGSGHANGS
FLTHRSLSGC PRATFAGKKG KLSGDEVLSP KFKTSDVLEN DEEIKQLNQE IRDLNESNSE
MEAAMVQLQS 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 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:

Product Details

- 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®): <ol style="list-style-type: none">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)
Grade:	Crystallography grade

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
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Application Details

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.

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

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)