



[Go to Product page](#)

Datasheet for ABIN3134721  
**MYT1L Protein (AA 1-1187) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	MYT1L
Protein Characteristics:	AA 1-1187
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYT1L protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MDVDSEEKRH RTRSKGVRVP VEPAIQELFS CPTPGCDGSG HVSGKYARHR SVYGCPLAKK  
RKTQDKQPQE PAPKRKPFV KADSSSVDEC YESDGTEDMD DKEEDDDEEF SEDNDEQGDD  
DDEDEVRED EEEIEEEDDE EDDDDDEDGDD VEEEEEDDDE EEEEEEEEE NEDHQMSCTR  
IMQDQDKDDN NNDEYDNYDE LVAKSLLNLG KIAEDAAYRA RTESEMNSNT SNSLEDDSDK  
NENLGRKSEL SLDLSDVVR ETVDSLKLLA QGHGVVLSN ISDRSYAEGM SQQDSRNMNY  
VMLGKPMNNG LMEKMVEESD EEVCLSSLEC LRNQCFDLAR KLSETNPQDR SQPPNMMSVRQ  
HVRQEDDFPG RTPDRSYSDM MNLMLRLEEQL SPRSRTFSSC AKEDGCHERD DDTTSVNSDR  
SEEVFDMTKG NLTLEKAIA LETERAKAMR EKMAMDAGRR DNLRSYEDQS PRQLAGEDRK  
SKSSDSHVKK PYYGKDPSRT EKRESKCTPT GCDGTGHVTG LYPHHRSLSG CPHKDRVPPE  
ILAMHENVLK CPTPGCTGRG HVNSNRNSHR SLSGCPAAAA EKLAKAQEKH QSCDVSKSNQ  
ASDRVLRPMC FVKQLEIPQY GYRNNVPTTT PRSNLAKELE KYSKTSFEYN SYDNHTYGKR  
AIAPKVQTRD ISPKGYDDAK RYCKNASPSS STTSSYAPSS SSNLSCGGGS SASSTCSKSS

FDYTHDMEAA HMAATAILNL STRCREMPQN LSTKPQDLCT ARNPDMEVDE NGTLDLSMNK  
QRPRDSCCPV LTPLEPMSPQ QQAVMSSRCF QLSEGDCWDL PVDYTKMKPR RVDEDEPKEI  
TPEDLDPFQE ALEERRYGE VTIPSPKPKY PQCKESKKDL ITLSGCPLAD KSIRSMLATS  
SQELKCPTPG CDGSGHITGN YASHRSLSGC PRAKKSIGIRI AQSKEKEDQ EPIRCVPVGC  
DGQGHITGKY ASHRASGCP LAAKRQKDG Y LNGSQFSWKS VKTEGMSCT PGCDGSGHVS  
GSFLTHRSLGCPRATSAMK KAKLSGEQML TIKQRASNGI ENDEEIKQLD EEIKELNESN  
SQMEADMIKL RTQITTMESN LKTIEEENKV IEQQNESLLH ELANLSQSLI HSLANIQLPH  
MDPINEQNFD AYVTTLTEMY TNQDRYQSPE NKALLENIKQ AVRGIQV

**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.**

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### 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!

## Product Details

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### 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.

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### Purification:

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

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.

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### Purity:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

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### Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

## Target Details

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### Target:

MYT1L

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### Alternative Name:

Myt1l ([MYT1L Products](#))

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### Background:

Myelin transcription factor 1-like protein (MyT1-L) (MyT1L) (Neural zinc finger factor 1) (NZF-1) (Postmitotic neural gene 1 protein) (Zinc finger protein Png-1),FUNCTION: Transcription factor that plays a key role in neuronal differentiation by specifically repressing expression of non-neuronal genes during neuron differentiation (PubMed:28379941). In contrast to other transcription repressors that inhibit specific lineages, mediates repression of multiple differentiation programs (PubMed:28379941). Also represses expression of negative regulators of neurogenesis, such as members of the Notch signaling pathway, including HES1 (PubMed:28379941). The combination of three transcription factors, ASCL1, POU3F2/BRN2 and MYT1L, is sufficient to reprogram fibroblasts and other somatic cells into induced neuronal (iN) cells in vitro (PubMed:20107439, PubMed:24243019, PubMed:27281220). Directly binds the 5'-AAGTT-3' core motif present on the promoter of target genes and represses transcription by recruiting a multiprotein complex containing SIN3B (PubMed:28379941). The 5'-AAGTT-3' core motif is absent from the promoter of neural genes (PubMed:28379941).

{ECO:0000269|PubMed:20107439, ECO:0000269|PubMed:24243019,

ECO:0000269|PubMed:27281220, ECO:0000269|PubMed:28379941,

## Target Details

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ECO:0000269|PubMed:9130664, ECO:0000269|PubMed:9373037}.

Molecular Weight: 132.9 kDa

UniProt: [P97500](#)

## 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.

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. 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)