

Datasheet for ABIN3130997

## MBD5 Protein (AA 1-1498) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	MBD5
Protein Characteristics:	AA 1-1498
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MBD5 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MNGGKECDGG DKEGGLAAIQ VPVGWQRRVD HNGVLYISPS GSLLSCLDQV KTYLLTDGTC</p> <p>KCGLECPLIL PKVFNFDPGA AVKQRTAEDV KADDDVTKLC IHKRKIIAVA TLHQSMEAPH</p> <p>PSLVLTSPGG GTNATPVVPS RAATPRSVRN KSHEGITNSV MPECKNPFKL MTGSSNAMGR</p> <p>LYMQDLPGSQ QQELHPVYPR QRLGSSEHGQ KSPFRGSHGG LPSPASSGSQ IYGDGSISPR</p> <p>TDPLGSPDVF TRNNPGFHGA PNSSPIHLNR TPLSPPSVML HGSPVQSSCA MAGRTNIPLS</p> <p>PTLTTKSPVM KKPMC NFSTN MEIPRAMFHH KPPQGPPPPP PPSCALQKKP LTSEKDPLGI</p> <p>LDPIPSKPVN QNPIIINPTS FHSNVHSQVP VMNVSMPPAV VPLPSNLPLP TVKPGHMNHG</p> <p>SHVQRIQHSA STSLSPSPVT SPVHMMGTGI GRIEASPQRS RSSSTSSDHG NFMMPVGPQ</p> <p>ATCSGIVPP RSPRSTIGSP RPSMPSSPST KSDGHHQYKD IPNPLIAGMS NVLNTPSSAA</p> <p>FPTAPAGNGS VKSQPGLLGM PLNQILNQHN AASFPASSLL SAAAKAQLAN QNKLAGNNSS</p> <p>SSNNSGAVAS SGNTEGHSTL NTMFPPTANM LLPTGEGQSG RAALRDKLMS QQKDSLKRK</p>

QPPTTVLSLL RQSQMDSSAA PKPGPDLLRK HGQGSFPISS MSQLQSMSC QSSHLSSNST  
PGCGGSNTAL PCSANQLHFP DPNMNSTVLQ NSLTQSIPLR GEAVHCHNAN TNFVHSNSPV  
PNHHLA GLIN QIQASGNCGM LSQSGMALGN SLHPNPPQSR ISTSSTPVIP NSIVSSYNQT  
SSEAGGSSLP SSIAAGSNH PAITKTTSVL QDGVIVTTAA GNPLQSQLPI GSDFFPVGQE  
HALHFPSNST ANNHLPHPLN PSLSSLPIS LPVNQQHLLN QNLLNILQPS AGEGLDISSIN  
NSLNNHQLTH LQSLNNSNQMFPPNQQPQQH LLQGHQNLQA FQGQPTVPCP ANNNPMACLF  
QNFQVRMQGD AALLNKIRST QPGLTTLPEN PNLALPHFQD TPCELQPRID LGQPMKDGLV  
MGGQGDAVD AIYKAVVDAA SKGMQVVITT AVNSTTQISP IPALSAMSAF TASIGDPLNL  
SSAVSAVIHG RNMGGVDHDG RLRNARGARL PKNIDHGKNS SEGDFECFK SASCHTSRKQ  
WDGEQSPRGE RNRWKYEEFL DHPGHIHSSP CHERPNNVST LPFLAGEQHP ILLPPRNCQG  
DKILEENFRY NNYKRTMMSF KERLESTVER CTHINGNRPR QSRGFGELLG TAKQDLVLEG  
QSPGSSNSLE SSLVKDYIHY NGDFNAKTIN GCVPSPSDAK SISEDLDLRN PDSPSSHELI  
HYRPRTFNVG DLVWGQIKGL TSWPGKFIRE DDVHNSCQQS PEEGKVEPEK LKLTLEGLEA  
YSRVRKRSRK SGKLNNHLEA AIHEAMSELD KMSGTVHQIP QGDRQMRPPK PKRRKISR

**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

## Product Details

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 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:	MBD5
Alternative Name:	Mbd5 ( <a href="#">MBD5 Products</a> )
Background:	Methyl-CpG-binding domain protein 5 (Methyl-CpG-binding protein MBD5),FUNCTION: Binds to heterochromatin. Does not interact with either methylated or unmethylated DNA (in vitro) (By similarity). {ECO:0000250}.
Molecular Weight:	160.3 kDa
UniProt:	<a href="#">B1AYB6</a>
Pathways:	<a href="#">Chromatin Binding</a>

## 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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

Application Details

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. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol <b>Might differ depending on protein.</b>
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months