

Datasheet for ABIN3136976

## MSH4 Protein (AA 1-958) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	MSH4
Protein Characteristics:	AA 1-958
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MSH4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MCCLFLRLRD YSTAHALSLP PCQRCGLQPW SARSHARRTL GVRKAGEMLR QEASLS SSP</p> <p>RWTPSR RDAP CGRTLASASR PSTEGAMADR SSSSSSSPAP ASAPGSSFGN KRSYAIHRAA</p> <p>SSFPVGTSSS SARDTTYPHT FRTPLSAGNP QRS GHKSWTP QVGYSATSSA VSAHAPSVIV</p> <p>AVVEGRGLAR GEIGMASIDL KSPQIMLSQF ADNTTYAKVI TKLQVLSPLE IIMSNTACVV</p> <p>GNSTKLFTLI TENFKNVNFT TVQRKYFNET KGLE YIEQLC IAEFSSVLME VQSRYYCLAA</p> <p>AAALLKYVEF IQNSVYAPKS LKIYFQGSEQ TAMIDSSSAQ NLELLVNNQD YRSNHTLFGV</p> <p>LN YKTAGGS RRLRSNILEP LVDVETISMR LDCVQELLQD EELFFGLQSV ISRFLDTEQL</p> <p>LSVLVQIPKQ DTVNAAESKI TNLIY LKHTL ELVEPLKVTL KNCSTPLLRA YYGSLEDHRF</p> <p>GLILDKI KTV INDDARYMKG CLNMRTQKCY AVR SNISEFL DIARRTYTEI VDDIAGMIAQ</p> <p>LAEKYSLPLR TSFSSSRGFF IQMTTDCAL SSDQLPSEFI KISKVKNSYS FTSADLIKMN</p> <p>ERCQESLREI YHMTYMIVCK LLSEIYEH IH CLYKLSDTV SMLDMLLSFAH ACTLS DYVRP</p>

EFTDTLAIKQ GWHPILEKIS AEKPVANNTY ITEGSNVLII TGPNMSGKST YLKQIALCQI  
MAQIGSYVPA EYASFRIAAQ IFTRISTDDD IETNSSTFMK EMKEIAYILH NANDKSLILI  
DELGRGTNTE EGIGISYAVC EHLLSIKAFI LFTTHFLELC HLDALYLNVE NMHFEVQHVK  
NTSRNKDAIL YTYKLSRGLT EEKNYGLKAA EASSLPSSIV LDARDITTQI TRQILQNQRS  
SPEMDRQRAV YHLATRLVQA ARNSQLEPDR LRTYLSNLKK KYAGDFPRAV GLPEKTEE

**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:

- 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.

## Product Details

---

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:	MSH4
---------	------

Alternative Name:	Msh4 ( <a href="#">MSH4 Products</a> )
-------------------	--

Background:	MutS protein homolog 4 ( mMsh4),FUNCTION: Involved in meiotic recombination. Required for reciprocal recombination and proper segregation of homologous chromosomes at meiosis.
-------------	---

Molecular Weight:	107.0 kDa
-------------------	-----------

UniProt:	<a href="#">Q99MT2</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:	<p>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 even the most difficult-to-express proteins, including those that require post-translational modifications.</p> <p>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!</p>
----------	--

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