

Datasheet for ABIN3136550

## MTMR3 Protein (AA 1-1196) (Strep Tag)



[Go to Product page](#)

### Overview

Quantity:	250 µg
Target:	MTMR3
Protein Characteristics:	AA 1-1196
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MTMR3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AliCE®
Sequence:	<p>MDEEMRHSLE CIQANQIFPR KQLIREDELN QVPFLELHGE STEYVGRAEE AIIALSNYRL</p> <p>HIKFKESLVN VPLQLIESVE CRDIFQLHLT CKDCKVIRCQ FPTFEQCQDW LKRLNNAIRP</p> <p>PGKIEDLFSF AYHAWCMEVY ASEKEQHGD LCRPGEHVTSR FKNEVERMGF DMNNAWRISN</p> <p>INEKYKLCGS YPQELIVPAW ITDKELESVA GFRSWKRIPA VIYRHQSNGA VIARCGQPEV</p> <p>SWWGWARNADD EHLVQSVARA CASDSQSSIS KVSTRNSCRD FPNAGDLSDV EFDSSLSNTS</p> <p>GAESLALQPQ KLLILDARSY AAANANRAKG GGCECEPEYYP NCEVVFMGMA NIHSIRRSFQ</p> <p>SLRLLCTQMP DPGNWLSALE STKWLHHLVS LLKSALLVVH AVDRDQRPVL VHCSGDGWDRT</p> <p>PQIVALAKLL LDPYYRTIEG FQVLVEMEWL DFGHKFADRC GHGEDSDDL NERCPVFLQWL</p> <p>DCVHQLQRQF PCSFEFNEAF LVKLVQHTYS CLFGTFLCNN AKERGEKQTQ ERTCSVWSLL</p> <p>RAGNKAFKNL LYSSQSEAVL YPVCHVRNLM LWSAVYLPSP SPSTPTDDSC APYPVPGTSP</p> <p>DEPPLSRLPK TRSFDNLTTT CENMVPLASR RSSDPSLNEK WQEHGRSLEL SSFASAGEEV</p>

PAMDSLRKPS RLLGGAELSV AAGVAEGQME NILQEATKEE SGVEEPTHRG HTEVPEVKEE  
APLAKESSMA AEGPVVLYQE PQLDDATLRS HQGPSLSLFS QGIPEHQDGH NVLSSSLQAP  
LRGEDSQEVP VEQPQVENIA EDRENVAPAV PVDKAVGLGI SQSSSLLPSQ VPFETRGPFI  
NNSVHMLLED KVKSESGPQL HHRPCPASSG RFSGKDMLPV APEPRSAERP QWDSVLHRTS  
SPGNTLSLLQ APCALPLDKC RQGIVCNGAL ETENKASEQP AGFDTLQKYP TPNGHCANWE  
AGRSKDSLSH QLSATSCSSA HLYSRNLHHK WLNSHSGRPS TTSSPDQPSR SHLDDDGMPIV  
YTDTIQQRLR QIESGHQQEV ETLKKQVQEL KSRLESQYLT SSLRFNGDFG DEVTSIPDSE  
SNLDQNCVSR CSTEIFSEAS WEQVDKQDTE MTRWLPDHLA AHCYACDSAF WLASRKHHCR  
NCGNVFCSSC CNQKVPVPSQ QLFEPSRVCK SCYSSLHPTS SSIDLELDKP IAATSN

**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 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!

## Product Details

### 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:** MTMR3

**Alternative Name:** Mtmr3 ([MTMR3 Products](#))

**Background:** Myotubularin-related protein 3 (EC 3.1.3.48) (Phosphatidylinositol-3,5-bisphosphate 3-phosphatase) (EC 3.1.3.95) (Phosphatidylinositol-3-phosphate phosphatase) (EC 3.1.3.64),FUNCTION: Phosphatase that acts on lipids with a phosphoinositol headgroup. Has phosphatase activity towards phosphatidylinositol 3-phosphate and phosphatidylinositol 3,5-bisphosphate. May also dephosphorylate proteins phosphorylated on Ser, Thr, and Tyr residues (By similarity). {ECO:0000250|UniProtKB:Q13615}.

**Molecular Weight:** 133.8 kDa

**UniProt:** [Q8K296](#)

**Pathways:** [Inositol Metabolic Process](#)

## 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 *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.

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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 <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