

# Datasheet for ABIN3136293 CMTR2 Protein (AA 1-767) (Strep Tag)



Overview

Quantity:	250 µg
Target:	CMTR2
Protein Characteristics:	AA 1-767
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CMTR2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

## Product Details

Brand:	AliCE®
Sequence:	MSKRRKLPAR QPACLETFSP DVLNDVSELF AKSFSYRKPL DNEWQLPAPT ESFSCGHLEF
	RALLDLKNSL NEVKNLLSDK KLDEWHRHTA FTNKAGKIIS HVKKAVNAEL CTQAWCKFQE
	ILCSFPLIPQ EAFQSGRLNS LHLCEAPGAF IASLNHYLKS HRFPCEWSWV ANSLNPYHEA
	NDNLRMITDD RLMANTLHCW YFGPDNTGDI MTLKYLTGLQ DFLSGMSPIH LVTADGSFDC
	QGNPGEQEAL VSSLHYCEAV TALITLGDGG SFVLKMFTLF EHCSVNLMYL LNCSFDQVHV
	FKPATSKAGN SEVYVVCLRY KGREAVQPLL SRMVLNFGTE MTRKALFPHH VIPKSFLERH
	EECCTFFHRY QLETISENIR LFESMGTGEQ ERLNNLRDCA VQYFMQKFQL KPLSRNHWLV
	KKSNIGCSMN TKWFGQRNKY FKTYNERKMM ETLSWKDKVA KGYFNSWAEE HTVYHPGQNS
	LLEGTASSLE YQSWQVLEGK KLPKVKCSPF CDGEILKTLN EAIEKSLGEA LSVDAKVSSK
	QQYRCCPVFS EESVLSELLR LTKCLPDEQG AEPSGPVKCL LVGSPAVCDL QMPAPLEIQL
	VESVELTAFS CSLLHDGDPA YQHLFLDCLL HSLRRLHRGD VMVLPILSCF TRFMAGLTFV

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## LHGCFRFITF SCPTSLEPLR TCAVLLCIGY QNLPDAVFQF LQNVHDLLSK LLHPSAPRQI LQFLPMEALL QGTLLDFLWD LNAAIAKRHL HLIIQGERDQ AIGSLEL

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 posttranslational 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.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

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## Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

## Target Details

Target:	CMTR2
Alternative Name:	Cmtr2 (CMTR2 Products)
Background:	Cap-specific mRNA (nucleoside-2'-0-)-methyltransferase 2 (EC 2.1.1.296) (Cap
	methyltransferase 2) (Cap2 2'O-ribose methyltransferase 2) (MTr2) (FtsJ methyltransferase
	domain-containing protein 1),FUNCTION: S-adenosyl-L-methionine-dependent
	methyltransferase that mediates mRNA cap2 2'-O-ribose methylation to the 5'-cap structure of
	mRNAs. Methylates the ribose of the second nucleotide of a m(7)GpppG-capped mRNA and
	small nuclear RNA (snRNA) (cap0) to produce m(7)GpppRmpNm (cap2). Recognizes a
	guanosine cap on RNA independently of its N(7) methylation status. Display cap2 methylation
	on both cap0 and cap1. Displays a preference for cap1 RNAs.
	{EC0:0000250 UniProtKB:Q8IYT2}.
Molecular Weight:	87.1 kDa
UniProt:	Q8BWQ4
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.
	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!

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# Application Details

## 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