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# Datasheet for ABIN3115858 MBOAT1 Protein (AA 1-495) (Strep Tag)





#### Overview

Quantity:	1 mg
Target:	MBOAT1
Protein Characteristics:	AA 1-495
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MBOAT1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence:	MAAEPQPSSL SYRTTGSTYL HPLSELLGIP LDQVNFVVCQ LVALFAAFWF RIYLRPGTTS
	SDVRHAVATI FGIYFVIFCF GWYSVHLFVL VLMCYAIMVT ASVSNIHRYS FFVAMGYLTI
	CHISRIYIFH YGILTTDFSG PLMIVTQKIT TLAFQVHDGL GRRAEDLSAE QHRLAIKVKP
	SFLEYLSYLL NFMSVIAGPC NNFKDYIAFI EGKHIHMKLL EVNWKRKGFH SLPEPSPTGA
	VIHKLGITLV SLLLFLTLTK TFPVTCLVDD WFVHKASFPA RLCYLYVVMQ ASKPKYYFAW
	TLADAVNNAA GFGFSGVDKN GNFCWDLLSN LNIWKIETAT SFKMYLENWN IQTATWLKCV
	CYQRVPWYPT VLTFILSALW HGVYPGYYFT FLTGILVTLA ARAVRNNYRH YFLSSRALKA
	VYDAGTWAVT QLAVSYTVAP FVMLAVEPTI SLYKSMYFYL HIISLLIILF LPMKPQAHTQ
	RRPQTLNSIN KRKTD
	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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# Product Details

#### 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 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 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.

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

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Product Details	

	Western blot.
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

# Target Details

Target:	MBOAT1
Alternative Name:	MBOAT1 (MBOAT1 Products)
Background:	Lysophospholipid acyltransferase 1 (LPLAT 1) (1-acylglycerophosphocholine O-acyltransferase
	(EC 2.3.1.23) (1-acylglycerophosphoethanolamine O-acyltransferase) (EC 2.3.1.n7) (1-
	acylglycerophosphoserine O-acyltransferase MBOAT1) (EC 2.3.1.n6) (Lysophosphatidylserine
	acyltransferase) (LPSAT) (Lyso-PS acyltransferase) (Membrane-bound O-acyltransferase
	domain-containing protein 1) (O-acyltransferase domain-containing protein 1),FUNCTION:
	Acyltransferase which catalyzes the transfer of an acyl group from an acyl-CoA towards a
	lysophospholipid producing a phospholipid and participates in the reacylation step of the
	phospholipid remodeling pathway also known as the Lands cycle (PubMed:18772128). Acts on
	lysophosphatidylserine (1-acyl-2-hydroxy-sn-glycero-3-phospho-L-serine or LPS) and
	lysophosphatidylethanolamine (1-acyl-sn-glycero-3-phosphoethanolamine or LPE), and to a
	lesser extend lysophosphatidylcholine (PubMed:18772128). Prefers oleoyl-CoA as the acyl
	donor and 1-oleoyl-LPE as acceptor (PubMed:18772128). May play a role in neurite outgrowth
	during neuronal differentiation (By similarity). {ECO:0000250 UniProtKB:Q8BH98,
	ECO:0000269 PubMed:18772128}.
Molecular Weight:	56.6 kDa
UniProt:	Q6ZNC8
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

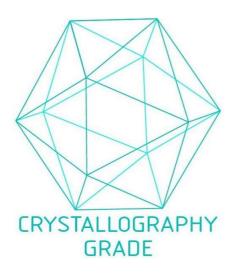
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	modifications.
	During lysate production, the cell wall and other cellular components that are not required for
	protein production are removed, leaving only the protein production machinery and the
	mitochondria to drive the reaction. During our 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. 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)

## Images



**Image 1.** "Crystallography Grade" protein due to multi-step, protein-specific purification process

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