

Datasheet for ABIN3118533

## LMBRD1 Protein (AA 1-540) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	LMBRD1
Protein Characteristics:	AA 1-540
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This LMBRD1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MATSGAASAE LVIGWCIFGL LLLAILAFCW IYVRKYQSRR ESEVVSTITA IFSLAIALIT SALLPVDIFL  VSYMKNQNGT FKDWANANVS RQIEDTVLYG YYTLYSVILF CVFFWIPFVY FYYEEKDDDD  TSKCTQIKTA LKYTLGFVVI CALLLLVGAF VPLNVPNNKN STEWEKVKSL FEELGSSHGL  AALSFSISSL TLIGMLAAIT YTAYGMSALP LNLIKGTRSA AYERLENTED IEEVEQHIQT  IKSKSKDGRP LPARDKRALK QFEERLRTLK KRERHLEFIE NSWWTKFCGA LRPLKIVWGI  FFILVALLFV ISLFLSNLDK ALHSAGIDSG FIIFGANLSN PLNMLLPLLQ TVFPLDYILI TIIIMYFIFT  SMAGIRNIGI WFFWIRLYKI RRGTRTPQAL LFLCMILLI VLHTSYMIYS LAPQYVMYGS  QNYLIETNIT SDNHKGNSTL SVPKRCDADA PEDQCTVTRT YLFLHKFWFF SAAYYFGNWA  FLGVFLIGLI VSCCKGKKSIV IEGVDESDI SDDEPSVYSA</p>

**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!

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.

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Purification:

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

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Purity:

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

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Grade:

custom-made

## Target Details

Target:	LMBRD1
Alternative Name:	LMBRD1 ( <a href="#">LMBRD1 Products</a> )
Background:	<p>Lysosomal cobalamin transport escort protein LMBD1 (LMBD1) (HDAg-L-interacting protein NESI) (LMBR1 domain-containing protein 1) (Nuclear export signal-interacting protein),FUNCTION: Lysosomal membrane chaperone required to export cobalamin (vitamin B12) from the lysosome to the cytosol, allowing its conversion to cofactors (PubMed:19136951). Targets ABCD4 transporter from the endoplasmic reticulum to the lysosome (PubMed:27456980). Then forms a complex with lysosomal ABCD4 and cytoplasmic MMACHC to transport cobalamin across the lysosomal membrane (PubMed:25535791). Acts as an adapter protein which plays an important role in mediating and regulating the internalization of the insulin receptor (INSR) (By similarity). Involved in clathrin-mediated endocytosis of INSR via its interaction with adapter protein complex 2 (By similarity). Essential for the initiation of gastrulation and early formation of mesoderm structures during embryogenesis (By similarity). {ECO:0000250 UniProtKB:Q8K0B2, ECO:0000269 PubMed:19136951, ECO:0000269 PubMed:27456980, ECO:0000303 PubMed:25535791}., FUNCTION: [Isoform 3]: (Microbial infection) May play a role in the assembly of hepatitis delta virus (HDV). {ECO:0000269 PubMed:15956556}.</p>
Molecular Weight:	61.4 kDa
UniProt:	<a href="#">Q9NUN5</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</p>

Application Details

	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