

## Datasheet for ABIN3136704 MUL1 Protein (AA 1-352) (Strep Tag)



Overview

Quantity:	250 µg
Target:	MUL1
Protein Characteristics:	AA 1-352
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MUL1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Brand:	AliCE®
Sequence:	MESGSRPSLG QVILLGTSSM VTAVLYSIYR QKAQVAQELK GAKKIHLGED LKGILSEAPG
	KCVPYAVIEG AVRSVKETLN SQFVENCKGV IQRLSLQEHK MVWNRTTHLW NDYSKIIHQR
	TNTVPFDLVP HEDGVAVSVR VLKPLDSVDL GLETVYEKFH PSVQSFTDAI GHYISGERPK
	GIQETEEMLK VGATLTGIGE LVLDNNAVRL QPPKQGMQYY LSSQDFDSLL HRQESSVRLW
	KILVLVFGFA TCATLFFILR KQYLHRQERL RQQQLQEEFL EHEAQLLSQA SPEDRESLKS
	ACVVCLSNFK SCVFLECGHV CSCRQCYLAL PEPKRCPICR REITRVIPLY NS
	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:

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- 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®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made
Target Details	
Target:	MUL1

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Target Details		
Alternative Name:	Mul1 (MUL1 Products)	
Background:	Mith (MCLTPRODUCE) Mitochondrial ubiquitin ligase activator of NFKB 1 (EC 2.3.2.27) (E3 ubiquitin-protein ligase MUL1) (Growth inhibition and death E3 ligase) (Protein Hades) (RING-type E3 ubiquitin transferase NFKB 1),FUNCTION: Exhibits weak E3 ubiquitin-protein ligase activity (By similarity) E3 ubiquitin ligases accept ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfer the ubiquitin to targeted substrates (By similarity). Can ubiquitinate AKT1 preferentially at 'Lys-284' involving 'Lys-48'-linked polyubiquitination and seems to be involved in regulation of Akt signaling by targeting phosphorylated Akt to proteasomal degradation (By similarity). Mediates polyubiquitination of cytoplasmic TP53 at 'Lys-27' which targets TP53 for proteasomal degradation, thus reducing TP53 levels in the cytoplasm and mitochondrion (By similarity). Proposed to preferentially act as a SUMO E3 ligase at physiological concentrations (By similarity). Plays a role in the control of mitochondrial localization (By similarity). Likely to promote mitochondrial fission through negatively regulating the mitochondrial fusion proteins MFN1 and MFN2, acting in a pathway that is parallel to the PRKN/PINK1 regulatory pathway (PubMed:24898855). May also be involved in the sumoylation of the membrane fission protein DNM1L (By similarity). Inhibits cell growth (By similarity). When overexpressed, activates JNK through MAP3K7/TAK1 and induces caspase-dependent apoptosis (By similarity). Involved in the modulation of innate immune defense against viruses by inhibiting RIGI-dependent antiviral response (By similarity). Can mediate RIGI sumoylation and disrupt its polyubiquitination (By similarity). {ECO:0000250]UniProtKB:Q969V5, ECO:0000269]PubMed:2489855}.	
Molecular Weight:	39.8 kDa	
UniProt:	Q8VCM5	
Pathways:	Positive Regulation of Endopeptidase Activity	
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.
	Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Expiry Date:

12 months