Datasheet for ABIN3136216

L3MBTL3 Protein (AA 1-883) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	L3MBTL3
Protein Characteristics:	AA 1-883
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This L3MBTL3 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MTESASSTSG QEFDVFSVMD WKDGVGTLPG SDLKFRVNEF GALEVITDES EMESVKKATA TTTWMVPTAQ DAPTSPPSSR PVFPPAYWTS PPGCPTVFSE KTGVPFRLKE QSKADGLQFC ENCCQYGNGD ECLSGGKYCS QNCARHAKDK DQKDERDGGE DNDEEDPKCS RKKKPKLSLK ADSKDDGEER DDEMENKQDG RILRGSQRAR RKRRGDSAVL KQGLPPKGKK TWCWASYLEE EKAVAVPTKL FKEHQSFPYN KNGFKVGMKL EGVDPDHQAM YCVLTVAEVC GYRIKLHFDG YSDCYDFWVN ADALDIHPVG WCEKTGHKLR PPKGYKEEEF NWQSYLKTCK AQAAPKSLFE NQNITVIPSG FRVGMKLEAA DKKSPSVICV ATVTDMVDNR FLVHFDNWDE SYDYWCESNS PHIHPVGWCK EHRRTLITPP GYSHVKHFSW DKYLEETNSL PAPARAFKVK PPHGFQKKMK LEAVDKRNPL FIRVATVADT DDHRIKVHFD GWSSCYDYWI DADSPDIHPV GWCSKTGHPL QAPLSPAELM EPSETGGCPT LGCRGVGHFK KSRYLGTQSG ANCPYSEINL SKERIFPDRL SGDTSPPTTP SFPRSKRMDT RESSSSPETR EKHANNFKED SEKKKENEVK TSAEAKVVRE

EPTPSVQQSQ PPQQVQQVQH AQPPQQAQKA PQAQQAQQAQ QAQQAPQAPQ TPQPQQAPQV QQAQQAPQAQ QAQQPQQAQQ PQQAPPVQQP QQVQQAQPTQ QQAQTQQQAQ RRSAVFLSFK PPIPCLPLRW EQQSKLLPTV AGIPASRVSK WSTDEVSEFI QSLPGCEEHG KVFKDEQIDG EAFLLMTQTD IVKIMSIKLG PALKIFNSIL MFKAAEKNSH NEL

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 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.

Product Details

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:	L3MBTL3
Alternative Name:	L3mbtl3 (L3MBTL3 Products)
Background:	Lethal(3)malignant brain tumor-like protein 3 (L(3)mbt-like protein 3) (MBT-1),FUNCTION: Is a negative regulator of Notch target genes expression, required for RBPJ-mediated transcriptional repression. It recruits KDM1A to Notch-responsive elements and promotes KDM1A-mediated H3K4me demethylation (By similarity). Involved in the regulation of ubiquitin-dependent degradation of a set of methylated non-histone proteins, including SOX2. It acts as an adapter recruiting the CRL4-DCAF5 E3 ubiquitin ligase complex to methylated target proteins (PubMed:30442713). Also involved in the regulation of ubiquitin-dependent degradation of methylated DNMT1 and E2F1 (By similarity). Required for normal maturation of myeloid progenitor cells. {ECO:0000250|UniProtKB:Q96JM7, ECO:0000269|PubMed:15889154, ECO:0000269|PubMed:30442713}.
Molecular Weight:	99.1 kDa
UniProt:	Q8BLB7

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

Application Details

	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