

Datasheet for ABIN3093374

## KDM2B Protein (AA 1-1336) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	KDM2B
Protein Characteristics:	AA 1-1336
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This KDM2B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Brand:	AlIcE®
Sequence:	<p>MAGPQMGGSA EDHPPRRHA AEKQKKKTVI YTKCFEFESA TQRPIDRQRY DENEDLSDVE</p> <p>EIVSVRGFSL EEKLRSQLYQ GDFVHAMEGK DFNYEYVQRE ALRVPLIFRE KDGLGIKMPD</p> <p>PDFTVRDVKL LVGSRRLLVDV MDVNTQKGTE MSMSQFVRYE ETPEAQRDKL YNVISLEFSH</p> <p>TKLEHLVKRP TVVDLVDWVD NMWPQHLKEK QTEATNAIAE MKYPKVKKYC LMSVKGCFD</p> <p>FHIDFGGTSV WYHVFRGGKI FWLIPPTLHN LALYEEWVLS GKQSDIFLGD RVERCQRIEL</p> <p>KQGYTFFIPS GWIHAVYTPV DSLVFGGNIL HSFNVPMQLR IYEIEDRTRV QPKFRYPFY</p> <p>EMCWYVLERY VYCVTQRSHL TQEYQRESML IDAPRKPSID GFSSDSWLEM EEEACDQQPQ</p> <p>EEEEKDEEGE GRDRAPKPPT DGSTSPTSTP SEDQEALGKK PKAPALRFLK RTLSNESEES</p> <p>VKSTTLAVDY PKTPTGSPAT EVSAKWTHLT EFELKGLKAL VEKLESLPEN KKCVPPEGIED</p> <p>PQALLEGVKN VLKEHADDDP SLAITGVPVV TWPKKTPKNR AVGRPKGKLG PASAVKLAAN</p> <p>RTTAGARRRR TRCRKCEACL RTECGECHFC KDMKKFGGPG RMKQSCIMRQ CIAPVLPHTA</p>

VCLVCGEAGK EDTVEEEEGK FNLMLMECSI CNEIHPGCL KIKESEGVVN DELPNCWECF  
KCNHAGKTGK QKRGPGFKYA SNLPGSLLKE QKMNRDNKEG QEPAKRRSEC EEAPRRRSDE  
HSKKVPPDGL LRRKSDDVHL RKKRKYEKPKQ ELSGRKRASS LQTSPGSSSH LSPRPPLGSS  
LSPWWRSSLT YFQQQLKPGK EDKLFRKKRR SWKNAEDRMA LANKPLRRFK QEPEDELPEA  
PPKTRESHDS RSSSPTAGPS TEGAEGPEEK KKVMMRRKRR LPNKELSREL SKELNHEIQR  
TENSLANENQ QPIKSEPESE GEEKRPPGI CERPHRFSKG LNGTPRELRL QLGPRLRSP  
RVISRPSPSV SPPKCIQMER HVIRPPPISP PPSLPLDDG AAHVMHREVM MAVFSYLSHQ  
DLCVCMRVCR TWRNWCCDKR LWTRIDLNHC KSITPLMLSG IIRRPVSLD LSWTNISKKQ  
LSWLINRLPG LRDVLVSGCS WIAVSALCSS SCPLLRTLDV QWVEGLKDAQ MRDLLSPPTD  
NRPGQMDNRS KLRNIVELRL AGLDITDASL RLIRHMPLL SKLHLSYCNH VTDQSINLLT  
AVGTTTRDSL TEINLSDCNK VTDQCLSFFK RCGNICHIDL RYCKQVTKEG CEQFIAEMSV  
SVQFGQVEEK LLQKLS

**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

## Product Details

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:	KDM2B
Alternative Name:	KDM2B ( <a href="#">KDM2B Products</a> )
Background:	<p>Lysine-specific demethylase 2B (EC 1.14.11.27) (CXXC-type zinc finger protein 2) (F-box and leucine-rich repeat protein 10) (F-box protein FBL10) (F-box/LRR-repeat protein 10) (JmjC domain-containing histone demethylation protein 1B) (Jumonji domain-containing EMSY-interactor methyltransferase motif protein) (Protein JEMMA) (Protein-containing CXXC domain 2) ([Histone-H3]-lysine-36 demethylase 1B),FUNCTION: Histone demethylase that demethylates 'Lys-4' and 'Lys-36' of histone H3, thereby playing a central role in histone code (PubMed:16362057, PubMed:17994099, PubMed:26237645). Preferentially demethylates trimethylated H3 'Lys-4' and dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36' (PubMed:16362057, PubMed:17994099, PubMed:26237645). Preferentially binds the transcribed region of ribosomal RNA and represses the transcription of ribosomal RNA genes which inhibits cell growth and proliferation (PubMed:16362057, PubMed:17994099). May also serve as a substrate-recognition component of the SCF (SKP1-CUL1-F-box protein)-type E3 ubiquitin ligase complex (Probable). {ECO:0000269 PubMed:16362057, ECO:0000269 PubMed:17994099, ECO:0000269 PubMed:26237645, ECO:0000305}.</p>
Molecular Weight:	152.6 kDa
UniProt:	<a href="#">Q8NHM5</a>

## Target Details

Pathways: [Tube Formation](#), [Warburg Effect](#)

## 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!

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