Datasheet for ABIN3094660

ZMYND8 Protein (AA 1-1186) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	ZMYND8
Protein Characteristics:	AA 1-1186
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZMYND8 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MDISTRSKDP GSAERTAQKR KFPSPPHSSN GHSPQDTSTS PIKKKKKPGL LNSNNKEQSE LRHGPFYYMK QPLTTDPVDV VPQDGRNDFY CWVCHREGQV LCCELCPRVY HAKCLRLTSE PEGDWFCPEC EKITVAECIE TQSKAMTMLT IEQLSYLLKF AIQKMKQPGT DAFQKPVPLE QHPDYAEYIF HPMDLCTLEK NAKKKMYGCT EAFLADAKWI LHNCIIYNGG NHKLTQIAKV VIKICEHEMN EIEVCPECYL AACQKRDNWF CEPCSNPHPL VWAKLKGFPF WPAKALRDKD GQVDARFFGQ HDRAWVPINN CYLMSKEIPF SVKKTKSIFN SAMQEMEVYV ENIRRKFGVF NYSPFRTPYT PNSQYQMLLD PTNPSAGTAK IDKQEKVKLN FDMTASPKIL MSKPVLSGGT GRRISLSDMP RSPMSTNSSV HTGSDVEQDA EKKATSSHFS ASEESMDFLD KSTASPASTK TGQAGSLSGS PKPFSPQLSA PITTKTDKTS TTGSILNLNL DRSKAEMDLK ELSESVQQQS TPVPLISPKR QIRSRFQLNL DKTIESCKAQ LGINEISEDV YTAVEHSDSE DSEKSDSSDS EYISDDEQKS KNEPEDTEDK EGCQMDKEPS AVKKKPKPTN PVEIKEELKS TSPASEKADP

GAVKDKASPE PEKDFSEKAK PSPHPIKDKL KGKDETDSPT VHLGLDSDSE SELVIDLGED HSGREGRKNK KEPKEPSPKQ DVVGKTPPST TVGSHSPPET PVLTRSSAQT SAAGATATTS TSSTVTVTAP APAATGSPVK KQRPLLPKET APAVQRVVWN SSSKFQTSSQ KWHMQKMQRQ QQQQQQQNQQ QQPQSSQGTR YQTRQAVKAV QQKEITQSPS TSTITLVTST QSSPLVTSSG SMSTLVSSVN ADLPIATASA DVAADIAKYT SKMMDAIKGT MTEIYNDLSK NTTGSTIAEI RRLRIEIEKL QWLHQQELSE MKHNLELTMA EMRQSLEQER DRLIAEVKKQ LELEKQQAVD ETKKKQWCAN CKKEAIFYCC WNTSYCDYPC QQAHWPEHMK SCTQSATAPQ QEADAEVNTE TLNKSSQGSS SSTQSAPSET ASASKEKETS AEKSKESGST LDLSGSRETP SSILLGSNQG SDHSRSNKSS WSSSDEKRGS TRSDHNTSTS TKSLLPKESR LDTFWD

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!

Product Details

	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:	ZMYND8
Alternative Name:	ZMYND8 (ZMYND8 Products)
Background:	MYND-type zinc finger-containing chromatin reader ZMYND8 (Cutaneous T-cell lymphoma-associated antigen se14-3) (CTCL-associated antigen se14-3) (Protein kinase C-binding protein 1) (Rack7) (Transcription coregulator ZMYND8) (Zinc finger MYND domain-containing protein 8),FUNCTION: Chromatin reader that recognizes dual histone modifications such as histone H3.1 dimethylated at 'Lys-36' and histone H4 acetylated at 'Lys-16' (H3.1K36me2-H4K16ac) and histone H3 methylated at 'Lys-4' and histone H4 acetylated at 'Lys-14' (H3K4me1-H3K14ac) (PubMed:26655721, PubMed:31965980, PubMed:36064715, PubMed:27477906). May act as a transcriptional corepressor for KDM5D by recognizing the dual histone signature H3K4me1-H3K14ac (PubMed:27477906). May also act as a transcriptional corepressor for KDM5C and EZH2 (PubMed:33323928). Recognizes acetylated histone H4 and recruits the NuRD chromatin remodeling complex to damaged chromatin for transcriptional repression and double-strand break repair by homologous recombination (PubMed:30134174, PubMed:25593309, PubMed:27732854). Also activates transcription elongation by RNA polymerase II through recruiting the P-TEFb complex to target promoters (PubMed:30134174, PubMed:26655721). Localizes to H3.1K36me2-H4K16ac marks at all-trans-retinoic acid (ATRA)-responsive genes and positively regulates their expression (PubMed:26655721). Promotes neuronal differentiation by associating with regulatory regions within the MAPT gene, to enhance transcription of a protein-coding MAPT isoform and suppress the non-coding MAPT213 isoform (PubMed:36064715, PubMed:35916866, PubMed:30134174). Suppresses breast cancer, and prostate cancer cell invasion and metastasis (PubMed:27477906, PubMed:31965980, PubMed:33323928). {ECO:0000269|PubMed:25593309,

Target Details

	ECO:0000269|PubMed:26655721, ECO:0000269|PubMed:27477906, ECO:0000269|PubMed:27732854, ECO:0000269|PubMed:30134174, ECO:0000269|PubMed:31965980, ECO:0000269|PubMed:33323928, ECO:0000269|PubMed:35916866, ECO:0000269|PubMed:36064715}.
Molecular Weight:	131.7 kDa
UniProt:	Q9ULU4

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