Datasheet for ABIN3092060

DEAF1 Protein (AA 1-565) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	DEAF1
Protein Characteristics:	AA 1-565
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DEAF1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MEDSDSAAKQ LGLAEAAAVA AAAAVAAAAA AAAGGEAEEP VLSRDEDSEE DADSEAERET PRVTAVAVMA AEPGHMDMGA EALPGPDEAA AAAAFAEVTT VTVANVGAAA DNVFTTSVAN AASISGHVLS GRTALQIGDS LNTEKATLIV VHTDGSIVET TGLKGPAAPL TPGPQSPPTP LAPGQEKGGT KYNWDPSVYD SELPVRCRNI SGTLYKNRLG SGGRGRCIKQ GENWYSPTEF EAMAGRASSK DWKRSIRYAG RPLQCLIQDG ILNPHAASCT CAACCDDMTL SGPVRLFVPY KRRKKENELP TTPVKKDSPK NITLLPATAA TTFTVTPSGQ ITTSGALTFD RASTVEATAV ISESPAQGDV FAGATVQEAS VQPPCRASHP EPHYPGYQDS CQIAPFPEAA LPTSHPKIVL TSLPALAVPP PTPTKAAPPA LVNGLELSEP RSWLYLEEMV NSLLNTAQQL KTLFEQAKHA STYREAATNQ AKIHADAERK EQSCVNCGRE AMSECTGCHK VNYCSTFCQR KDWKDHQHIC GQSAAVTVQA DEVHVAESVM EKVTV **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.
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:	DEAF1
Alternative Name:	DEAF1 (DEAF1 Products)
Background:	Deformed epidermal autoregulatory factor 1 homolog (Nuclear DEAF-1-related transcriptional regulator) (NUDR) (Suppressin) (Zinc finger MYND domain-containing protein 5),FUNCTION: Transcription factor that binds to sequence with multiple copies of 5'-TTC[CG]G-3' present in its own promoter and that of the HNRPA2B1 gene. Down-regulates transcription of these genes. Binds to the retinoic acid response element (RARE) 5'-AGGGTTCACCGAAAGTTCA-3'. Activates the proenkephalin gene independently of promoter binding, probably through protein-protein interaction. When secreted, behaves as an inhibitor of cell proliferation, by arresting cells in the G0 or G1 phase. Required for neural tube closure and skeletal patterning. Regulates epithelial cell proliferation and side-branching in the mammary gland. Controls the expression of peripheral tissue antigens in pancreatic lymph nodes. Isoform 1 displays greater transcriptional activity than isoform 4. Isoform 4 may inhibit transcriptional activity of isoform 1 by interacting with isoform 1 and retaining it in the cytoplasm. Transcriptional activator of EIF4G3. {ECO:0000269|PubMed:10521432, ECO:0000269|PubMed:11427895, ECO:0000269|PubMed:11705868, ECO:0000269|PubMed:18826651, ECO:0000269|PubMed:19668219, ECO:0000269|PubMed:24726472}.
Molecular Weight:	59.3 kDa
UniProt:	O75398
Pathways:	Tube Formation

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

Application Details

	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