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Datasheet for ABIN3131884 EIF6 Protein (AA 1-245) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	EIF6
Protein Characteristics:	AA 1-245
Origin:	Mouse
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EIF6 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:

MAVRASFENN CEVGCFAKLT NAYCLVAIGG SENFYSVFEG ELSDAIPVVH ASIAGCRIIG
RMCVGNRHGL LVPNNTTDQE LQHIRNSLPD SVQIRRVEER LSALGNVTTC NDYVALVHPD
LDRETEEILA DVLKVEVFRQ TVADQVLVGS YCVFSNQGGL VHPKTSIEDQ DELSSLLQVP
LVAGTVNRGS EVIAAGMVVN DWCAFCGLDT TSTELSVVES VFKLNEAKPS TIATSMRDSL IDSLT

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 by multi-step, protein-specific process to ensure correct folding and modification.
- · 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 will ensure that you receive a correctly folded 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):

- 1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE.
- Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:

≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.

Endotoxin Level:

Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)

Target Details

Target:	EIF6
Alternative Name:	Eif6 (EIF6 Products)
Background:	Eukaryotic translation initiation factor 6 (eIF-6) (B4 integrin interactor) (CAB)
	(p27(BBP)),FUNCTION: Binds to the 60S ribosomal subunit and prevents its association with
	the 40S ribosomal subunit to form the 80S initiation complex in the cytoplasm. Behaves as a
	stimulatory translation initiation factor downstream insulin/growth factors. Is also involved in
	ribosome biogenesis. Associates with pre-60S subunits in the nucleus and is involved in its
	nuclear export. Cytoplasmic release of TIF6 from 60S subunits and nuclear relocalization is
	promoted by a RACK1 (RACK1)-dependent protein kinase C activity. In tissues responsive to
	insulin, controls fatty acid synthesis and glycolysis by exerting translational control of
	adipogenic transcription factors such as CEBPB, CEBPD and ATF4 that have G/C rich or uORF
	in their 5'UTR (PubMed:26383020). Required for ROS-dependent megakaryocyte maturation
	and platelets formation, controls the expression of mitochondrial respiratory chain genes
	involved in reactive oxygen species (ROS) synthesis (PubMed:26391622). Involved in miRNA-
	mediated gene silencing by the RNA-induced silencing complex (RISC). Required for both
	miRNA-mediated translational repression and miRNA-mediated cleavage of complementary
	mRNAs by RISC (By similarity). Modulates cell cycle progression and global translation of pre-E
	cells, its activation seems to be rate-limiting in tumorigenesis and tumor growth
	(PubMed:21665150). {ECO:0000255 HAMAP-Rule:MF_03132, ECO:0000269 PubMed:18784653
	ECO:0000269 PubMed:21665150, ECO:0000269 PubMed:26383020,
	ECO:0000269 PubMed:26391622}.
Molecular Weight:	26.5 kDa
JniProt:	055135
Pathways:	Ribonucleoprotein Complex Subunit Organization, Ribosome Assembly
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.

Application Details

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. If you have a special request, please contact us.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)