Datasheet for ABIN3126534

GSPT1 Protein (AA 1-636) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	GSPT1
Protein Characteristics:	AA 1-636
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GSPT1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MDPSSGGGGG GGGGGSSSSS DSAPDCWDQT DMEAPGPGPC GGGGSGSGSM AAVAEAQREN LSAAFSRQLN VNAKPFVPNV HAAEFVPSFL RGPAQPPLSP AGAAGGDHGA GSGAGGPSEP VESSQDQSCE GSNSTVSMEL SEPVVENGET EMSPEESWEH KEEISEAEPG GGSSGDGRPP EESTQEMMEE EEEIPKPKSA VAPPGAPKKE HVNVVFIGHV DAGKSTIGGQ IMYLTGMVDK RTLEKYEREA KEKNRETWYL SWALDTNQEE RDKGKTVEVG RAYFETEKKH FTILDAPGHK SFVPNMIGGA SQADLAVLVI SARKGEFETG FEKGGQTREH AMLAKTAGVK HLIVLINKMD DPTVNWSNER YEECKEKLVP FLKKVGFNPK KDIHFMPCSG LTGANLKEQS DFCPWYIGLP FIPYLDNLPN FNRSVDGPIR LPIVDKYKDM GTVVLGKLES GSICKGQQLV MMPNKHNVEV LGILSDDVET DSVAPGENLK IRLKGIEEEE ILPGFILCDL NNLCHSGRTF DAQIVIIEHK SIICPGYNAV LHIHTCIEEV EITALICLVD KKSGEKSKTR PRFVKQDQVC IARLRTAGTI CLETFKDFPQ MGRFTLRDEG KTIAIGKVLK LVPEKD

Product Details

	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).

Product Details

Grade:	custom-made

Target Details

Target:	GSPT1
Alternative Name:	Gspt1 (GSPT1 Products)
Background:	Eukaryotic peptide chain release factor GTP-binding subunit ERF3A (Eukaryotic peptide chain release factor subunit 3a) (eRF3a) (EC 3.6.5.-) (G1 to S phase transition protein 1 homolog),FUNCTION: GTPase component of the eRF1-eRF3-GTP ternary complex, a ternary complex that mediates translation termination in response to the termination codons UAA, UAG and UGA. GSPT1/ERF3A mediates ETF1/ERF1 delivery to stop codons: The eRF1-eRF3-GTP complex binds to a stop codon in the ribosomal A-site. GTP hydrolysis by GSPT1/ERF3A induces a conformational change that leads to its dissociation, permitting ETF1/ERF1 to accommodate fully in the A-site. Component of the transient SURF complex which recruits UPF1 to stalled ribosomes in the context of nonsense-mediated decay (NMD) of mRNAs containing premature stop codons. Required for SHFL-mediated translation termination which inhibits programmed ribosomal frameshifting (-1PRF) of mRNA from viruses and cellular genes. {ECO:0000250|UniProtKB:P15170}.
Molecular Weight:	68.6 kDa
UniProt:	Q8R050

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

Application Details

	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