Datasheet for ABIN3093650

MOV10L1 Protein (AA 1-1211) (Strep Tag)

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Overview

Quantity:	1 mg
Target:	MOV10L1
Protein Characteristics:	AA 1-1211
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MOV10L1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MLSLAAKLVA FFWRTADTPR EEAGQLEPEL AEGDTKLKTV RGVVTRYCSD YGMIDDMIYF SSDAVTSRVL LNVGQEVIAV VEENKVSNGL KAIRVEAVSD KWEDDSRNHG SPSDCGPRVL IGCVTSLVEG AGCISQTTYF SLESVCEGFE PCKGDWVEAE YRIRPGTWSS EATSVKPLRY KRVDKVCISS LCGRNGVLEE SIFFTLDSLK LPDGYTPRRG DVVNAVVVES SQSCYVWRAL CMTLVKRRDA APVHEATHFY GTILLKNKGD IEVTQVTHFG TLKEGRSKTM VIWIENKGDI PQNLVSCKLA GWDKSKQFRF QMLDKDQMCP VVSFVSVPEK ENSSDENINS LNSHTKNKTS QMSESSLVNN RGISPGDCTC KGENGEKDNI LSRKQMTEPE PGGLVPPGGK TFIVVICDGK NPGRCKELLL LCFSDFLIGR YLEVNVISGE ESLIAAREPF SWKKLKSSQA LTSAKTTVVV TAQKRNSRRQ LPSFLPQYPI PDRLRKCVEQ KIDILTFQPL LAELLNMSNY KEKFSTLLWL EEIYAEMELK EYNMSGIILR RNGDLLVLEV PGLAEGRPSL YAGDKLILKT QEYNGHAIEY ISYVTEIHEE DVTLKINPEF EQAYNFEPMD VEFTYNRTTS RRCHFALEHV IHLGVKVLFP EEIILQSPQV TGNWNHAQDT KSSGQSTSKK NRKTMTDQAE HGTEERRVGD KDLPVLAPFT

AEMSDWVDEI QTPKARKMEF FNPVLNENQK LAVKRILSGD CRPLPYILFG PPGTGKTVTI IEAVLQVHFA LPDSRILVCA PSNSAADLVC LRLHESKVLQ PATMVRVNAT CRFEEIVIDA VKPYCRDGED IWKASRFRII ITTCSSSGLF YQIGVRVGHF THVFVDEAGQ ASEPECLIPL GLMSDISGQI VLAGDPMQLG PVIKSRLAMA YGLNVSFLER LMSRPAYQRD ENAFGACGAH NPLLVTKLVK NYRSHEALLM LPSRLFYHRE LEVCADPTVV TSLLGWEKLP KKGFPLIFHG VRGSEAREGK SPSWFNPAEA VQVLRYCCLL AHSISSQVSA SDIGVITPYR KQVEKIRILL RNVDLMDIKV GSVEEFQGQE YLVIIISTVR SNEDRFEDDR YFLGFLSNSK RFNVAITRPK ALLIVLGNPH VLVRDPCFGA LLEYSITNGV YMGCDLPPAL QSLQNCGEGV ADPSYPVVPE STGPEKHQEP S

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 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 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. 2. 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:	MOV10L1
Alternative Name:	MOV10L1 (MOV10L1 Products)
Background:	RNA helicase Mov10l1 (EC 3.6.4.13) (Moloney leukemia virus 10-like protein 1) (MOV10-like protein 1),FUNCTION: ATP-dependent RNA helicase required during spermatogenesis to repress transposable elements and prevent their mobilization, which is essential for germline integrity. Acts via the piRNA metabolic process, which mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposons. Involved in the primary piRNA metabolic process. Specifically binds to piRNA precursors and promotes the generation of intermediate piRNA processing fragments that are subsequently loaded to Piwi proteins. Acts via its ATP-dependent RNA helicase activity: displays 5'-3' RNA unwinding activity and probably mediates unwinding and funneling of single-stranded piRNA precursor transcripts to the endonuclease that catalyzes the first cleavage step of piRNA processing to generate piRNA intermediate fragments that are subsequently loaded to Piwi proteins. {ECO:0000250|UniProtKB:Q99MV5}.
Molecular Weight:	135.3 kDa

Target Details

UniProt:	Q9BXT6

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. 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)