Datasheet for ABIN3136979

MOV10L1 Protein (AA 1-1187) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MOV10L1
Protein Characteristics:	AA 1-1187
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MOV10L1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MIDDLIYFSN DAVTSTVLLN VGQEVIAVVE ENKVSNGLKA IRVEAVSDKW EDDSKNSSKG LSDSSPRVLI GCVTSMLEGA GYISQTTYFS LESVCEGFHP CKGDWVEAEY WIRPGTWSSE AISVKPLRYK RVDKVCISSL CGRNGVIEDS IFFSLDSLKL PEGYIPRRHD IVNAVVVESS QSCYIWRALC MTPVKRDATL GEAPQEPYGA LLLKNKGDIE VTRMTSFGTL KEGESKSIVI WIENKGKFSR ELVSCRLANW DKAHQFRFET QGRSKSCPGA AAGSVPEGEN VNSLNHHRED KTDEIPESRL ANSTEISPDG CACKEESREK GNTPEKQEPE PGGLIPPGEK THIVVTCSAK NPGRCKELLL LCFSDFLIGR HLEVSVVSSE EALIAVREPF SWKKPKSSQT LVSAKTTVVV TTQKRNSRRQ LPSFLPQYPI PDRLKKCVEQ KIDILTFQPL LAELLNMSNY KEKFSTLLWL EEIHAEIELK EYNMSRVVLK RKGDLLVLEV PGLAESRPSL YAGDKLILKS QEYNGHVIEY IGYVMEIHEE DVTLKLNPGF EQMYNFEPMD VEFTYNRTTS RRCHYALEQV IHLGVKVLFP EEIILQSPQV TGNWSLAQDT KNDGQSITNI TRNDGQSMTK VTRNDSQSIT NIIRNDGQSI

TNVTRNDGQP ITKVTRNNSQ SITNITRNDG QPITKNKKTV KDQTKHTTEE RHVGTTDQPE KASSTAETMD EIQIPKARDK EFFNPVLNEN QKLAVRRILS GDCRPLPYIL FGPPGTGKTV TIIEAVLQVH YALPDSRILV CAPSNSAADL VCLRLHESKV PKPAAMVRVN ATCRFEETII DAIKPYCRDG EDIWRASRFR IIITTCSSAG LFYQIGVRVG YFTHVFVDEA GQASEPECLI PLGLISDING QIVLAGDPMQ LGPVIKSRLA MAYGLNVSML ERLMSRPAYL RDENAFGACG AYNPLLVTKL VKNYRSHSAL LALPSRLFYH RELEVCADPK VVTSLLGWEK LPRKGFPLIF HGVRGNEARE GRSPSWFSPA EAVQVMRYCC LLARSVSSQV SSKDIGVITP YRKQVEKIKI LLRNVDLTDI KVGSVEEFQG QEYLVIVIST VRSNEDRFED DRYFLGFLSN SKRFNVAITR PKALLIILGN PHVLVRDPCF GALLEYSVSN GVYTGCDLPP ELQALQK

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:	MOV10L1
Alternative Name:	Mov10l1 (MOV10L1 Products)
Background:	RNA helicase Mov10l1 (EC 3.6.4.13) (Cardiac helicase activated by MEF2 protein) (Cardiac-specific RNA helicase) (Moloney leukemia virus 10-like protein 1 homolog) (MOV10-like protein 1 homolog),FUNCTION: [Isoform 1]: ATP-dependent RNA helicase required during spermatogenesis to repress transposable elements and prevent their mobilization, which is essential for germline integrity (PubMed:20534472, PubMed:20547853, PubMed:23166510, PubMed:25762440). 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 (PubMed:20534472, PubMed:20547853, PubMed:23166510, PubMed:25762440). Involved in the primary piRNA metabolic process (PubMed:20534472, PubMed:20547853, PubMed:23166510, PubMed:25762440). Specifically binds to piRNA precursors and promotes the generation of intermediate piRNA processing fragments that are subsequently loaded to Piwi proteins (PubMed:25762440). 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 (PubMed:25762440). {ECO:0000269|PubMed:20534472, ECO:0000269|PubMed:20547853, ECO:0000269|PubMed:23166510, ECO:0000269|PubMed:25762440}., FUNCTION: [Isoform 2]: May act downstream of MEF2C during heart formation. Acts as a cardiac-specific suppressor of cardiomyocyte hypertrophy and cell cycle progression, suggesting that it may suppress these processes through the

Target Details

	regulation of CDKN1A. Such results however require additional evidence. {ECO:0000305|PubMed:11854500}.
Molecular Weight:	132.8 kDa
UniProt:	Q99MV5

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