Datasheet for ABIN7564909

# MOV10L1 Protein (AA 1-1187) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | MOV10L1 |
| Protein Characteristics: | AA 1-1187 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This MOV10L1 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant Mov10l1 Protein expressed in mammalian cells. |
| 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 |

## Product Details

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| | 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 Purification-Tag is based on experiences 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.** |
| Specificity: | If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer. |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalian cells and purified in one-step affinity chromatography<br>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.<br>• State-of-the-art algorithm used for plasmid design (Gene synthesis).<br><br>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.<br><br>If you are not interested in a full length protein, please contact us for individual protein fragments.<br><br>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. |
| Purity: | > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC) |
| Grade: | custom-made |

## Target Details

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| Target: | MOV10L1 |
| Alternative Name: | Mov10l1 (MOV10L1 Products) |

## Target Details

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

## Application Details

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| Application Notes: | We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |

## Handling

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| Buffer: | The buffer composition is at the discretion of the manufacturer. |
| Handling Advice: | Avoid repeated freeze-thaw cycles. |
| Storage: | -80 °C |
| Storage Comment: | Store at -80°C. |
| Expiry Date: | 12 months |