Datasheet for ABIN7557066

# USP39 Protein (AA 1-564) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | USP39 |
| Protein Characteristics: | AA 1-564 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This USP39 protein is labelled with His tag. |
| Application: | SDS-PAGE (SDS), Western Blotting (WB) |

## Product Details

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| Purpose: | Custom-made recombinat Usp39 Protein expressed in mammalien cells. |
| Sequence: | MSSRSKRQSH GSTRGKRESE SRGSSGRIKK ERDREKEPEA ASSRGSPVRV KREAEPAARE VPAPALPVVR VKREREADED SEPEREVRAK NGRVDSEDRR SRHCPYLDTI NRSVLDFDFE KLCSISLSHI NAYACLVCGK YFQGRGLKSH AYIHSVQFSH HVFLNLHTLK FYCLPDNYEI IDSSLEDITY VLKPTFTKQQ IANLDKQAKL SRAYDGTTYL PGIVGLNNIK ANDYANAVLQ ALSNVPPLRN YFLEEDNYKN IKRPPGDIMF LLVQRFGELM RKLWNPRNFK AHVSPHEMLQ AVVLCSKKTF QITKQGDGVD FLSWFLNALH SALGGTKKKK KTIVNDVFQG SMRIFTKKLP HPDLPAEEKE QLLHNDEYQE TMVESTFMYL TLDLPTAPLY KDEKEQLIIP QVPLFNILAK FNGITEKEYK TYKENFLKRF QLTKLPPYLI FCIKRFTKNN FFVEKNPTIV NFPITNVDLR EYLSEEVQAV HKNTTYDLIA NIVHDGKPSE GSYRIHVLHH GTGKWYELQD LQVTDILPQM ITLSEAYIQI WKRRDNDETN QQGA **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein** |

## Product Details

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| | **could make another tag necessary. In case you have a special request, please contact us.** |
| Characteristics: | Key Benefits:<br>• Made to order protein - from design to production - by highly experienced protein experts.<br>• Protein expressed in mammalien 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, Western Blot |
| Grade: | custom-made |

## Target Details

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| Target: | USP39 |
| Alternative Name: | Usp39 (USP39 Products) |
| Background: | Ubiquitin carboxyl-terminal hydrolase 39 (EC 3.4.19.12) (U4/U6.U5 tri-snRNP-associated 65 kDa protein),FUNCTION: Deubiquitinating enzyme that plays a role in many cellular processes including cellular antiviral response, epithelial morphogenesis, DNA repair or B-cell development (PubMed:35139388, PubMed:35440748, PubMed:36651806). Plays a role in pre-mRNA splicing as a component of the U4/U6-U5 tri-snRNP, one of the building blocks of the precatalytic spliceosome (By similarity). Specifically regulates immunoglobulin gene rearrangement in a spliceosome-dependent manner, which involves modulating chromatin interactions at the Igh locus and therefore plays an essential role in B-cell development (By similarity). Regulates AURKB mRNA levels, and thereby plays a role in cytokinesis and in the spindle checkpoint. Regulates apoptosis and G2/M cell cycle checkpoint in response to DNA damage by deubiquitinating and stabilizing CHK2. Plays also an important role in DNA repair by controlling the recruitment of XRCC4/LIG4 to DNA double-strand breaks for non-homologous end-joining |

## Target Details

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| | repair. Participates in antiviral activity by affecting the type I IFN signaling by stabilizing STAT1 and decreasing its 'Lys-6'-linked ubiquitination (By similarity). Contributes to non-canonical Wnt signaling during epidermal differentiation (By similarity). Acts as a negative regulator NF-kappa-B activation through deubiquitination of 'Lys-48'-linked ubiquitination of NFKBIA (By similarity). {ECO:0000250\|UniProtKB:Q53GS9, ECO:0000269\|PubMed:35139388, ECO:0000269\|PubMed:35440748, ECO:0000269\|PubMed:36651806}. |
| Molecular Weight: | 65.1 kDa |
| UniProt: | Q3TIX9 |
| Pathways: | Ribonucleoprotein Complex Subunit Organization |

## Application Details

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| 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. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Liquid |
| 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 |

 