Datasheet for ABIN7554853

# PAN2 Protein (AA 1-1202) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | PAN2 |
| Protein Characteristics: | AA 1-1202 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This PAN2 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant PAN2 Protein expressed in mammalian cells. |
| Sequence: | MNFEGLDPGL AEYAPAMHSA LDPVLDAHLN PSLLQNVELD PEGVALEALP VQESVHIMEG VYSELHSVVA EVGVPVSVSH FDLHEEMLWV GSHGGHATSF FGPALERYSS FQVNGSDDIR QIQSLENGIL FLTKNNLKYM ARGGLIIFDY LLDENEDMHS LLLTDSSTLL VGGLQNHIIE IDLNTVQETQ KYAVETPGVT IMRQTNRFFF CGHTSGKVSL RDLRTFKVEH EFDAFSGSLS DFDVHGNLLA ACGFSSRLTG LACDRFLKVY DLRMMRAITP LQVHVDPAFL RFIPTYTSRL AIISQSGQCQ FCEPTGLANP ADIFHVNPVG PLLMTFDVSA SKQALAFGDS EGCVHLWTDS PEPSFNPYSR ETEFALPCLV DSLPPLDWSQ DLLPLSLIPV PLTTDTLLSD WPAANSAPAP RRAPPVDAEI LRTMKKVGFI GYAPNPRTRL RNQIPYRLKE SDSEFDSFSQ VTESPVGREE EPHLHMVSKK YRKVTIKYSK LGLEDFDFKH YNKTLFAGLE PHIPNAYCNC MIQVLYFLEP VRCLIQNHLC QKEFCLACEL GFLFHMLDLS RGDPCQGNNF LRAFRTIPEA SALGLILADS DEASGKGNLA RLIQRWNRFI LTQLHQDMQE LEIPQAYRGA GGSSFCSSGD SVIGQLFSCE MENCSLCRCG SETVRASSTL LFTLSYPDGS KSDKTGKNYD FAQVLKRSIC LDQNTQAWCD |

## Product Details

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| | TCEKYQPTIQ TRNIRHLPDI LVINCEVNSS KEADFWRMQA EVAFKMAVKK HGGEISKNKE FALADWKELG SPEGVLVCPS IEELKNVWLP FSIRMKMTKN KGLDVCNWTD GDEMQWGPAR AEEEHGVYVY DLMATVVHIL DSRTGGSLVA HIKVGETYHQ RKEGVTHQQW YLFNDFLIEP IDKHEAVQFD MNWKVPAILY YVKRNLNSRY NLNIKNPIEA SVLLAEASLA RKQRKTHTTF IPLMLNEMPQ IGDLVGLDAE FVTLNEEEAE LRSDGTKSTI KPSQMSVARI TCVRGQGPNE GIPFIDDYIS TQEQVVDYLT QYSGIKPGDL DAKISSKHLT TLKSTYLKLR FLIDIGVKFV GHGLQKDFRV INLMVPKDQV LDTVYLFHMP RKRMISLRFL AWYFLDLKIQ GETHDSIEDA RTALQLYRKY LELSKNGTEP ESFHKVLKGL YEKGRKMDWK VPEPEGQTSP KNAAVFSSVL AL **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: | PAN2 |
| Alternative Name: | PAN2 (PAN2 Products) |

## Target Details

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| Background: | PAN2-PAN3 deadenylation complex catalytic subunit PAN2 (EC 3.1.13.4) (Inactive ubiquitin carboxyl-terminal hydrolase 52) (PAB1P-dependent poly(A)-specific ribonuclease) (Poly(A)-nuclease deadenylation complex subunit 2) (PAN deadenylation complex subunit 2),FUNCTION: Catalytic subunit of the poly(A)-nuclease (PAN) deadenylation complex, one of two cytoplasmic mRNA deadenylases involved in general and miRNA-mediated mRNA turnover. PAN specifically shortens poly(A) tails of RNA and the activity is stimulated by poly(A)-binding protein (PABP). PAN deadenylation is followed by rapid degradation of the shortened mRNA tails by the CCR4-NOT complex. Deadenylated mRNAs are then degraded by two alternative mechanisms, namely exosome-mediated 3'-5' exonucleolytic degradation, or deadenylation-dependent mRNA decaping and subsequent 5'-3' exonucleolytic degradation by XRN1. Also acts as an important regulator of the HIF1A-mediated hypoxic response. Required for HIF1A mRNA stability independent of poly(A) tail length regulation. {ECO:0000255\|HAMAP-Rule:MF_03182, ECO:0000269\|PubMed:14583602, ECO:0000269\|PubMed:16284618, ECO:0000269\|PubMed:23398456}. |
| Molecular Weight: | 135.4 kDa |
| UniProt: | Q504Q3 |

## 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 |
| 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 |