Datasheet for ABIN7561791

# DNAJB12 Protein (AA 1-376) (His tag)

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## Overview

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| Quantity: | 1 mg |
| Target: | DNAJB12 |
| Protein Characteristics: | AA 1-376 |
| Origin: | Mouse |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This DNAJB12 protein is labelled with His tag. |

## Product Details

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| Purpose: | Custom-made recombinant Dnajb12 Protein expressed in mammalian cells. |
| Sequence: | MESNKDEAER CISIALKAIQ SNQPERALRF LEKAQRLYPT PRVSALIESL NQKPQSTGDH PQPTDTTHTT TKKAGGTETP SANGEAGGGE SAKGYTSEQV AAVKRVKQCK DYYEILGVSR SASDEDLKKA YRKLALKFHP DKNHAPGATE AFKAIGTAYA VLSNPEKRKQ YDQFGDDKSQ AARHGHSHGD FHRGFEADIS PEDLFNMFFG GGFPSSNVHV YSNGRMRYTY QQRQDRRDNQ GDGGLGVFVQ LMPILILILV SALSQLMVSS PPYSLSPRPS VGHIHKRVTD HLNVAYYVAD TFSEEYTGSS LKTVERNVED DYIANLRNNC WKEKQQKEGL LYRARYFGDT DMYHRAQKMG TPSCNRLSEV QASLHG **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: |

## Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

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| 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: | DNAJB12 |
| Alternative Name: | Dnajb12 (DNAJB12 Products) |
| Background: | DnaJ homolog subfamily B member 12 (mDj10),FUNCTION: Acts as a co-chaperone with HSPA8/Hsc70, required to promote protein folding and trafficking, prevent aggregation of client proteins, and promote unfolded proteins to endoplasmic reticulum-associated degradation (ERAD) pathway. Acts by determining HSPA8/Hsc70's ATPase and polypeptide-binding activities. Can also act independently of HSPA8/Hsc70: together with DNAJB14, acts as a chaperone that promotes maturation of potassium channels KCND2 and KCNH2 by stabilizing nascent channel subunits and assembling them into tetramers. While stabilization of nascent channel proteins is dependent on HSPA8/Hsc70, the process of oligomerization of channel subunits is independent of HSPA8/Hsc70. When overexpressed, forms membranous structures together with DNAJB14 and HSPA8/Hsc70 within the nucleus, the role of these structures, named DJANGOs, is still unclear. {ECO:0000250\|UniProtKB:Q9NXW2}. |
| Molecular Weight: | 42.0 kDa |
| UniProt: | Q9QYI4 |

## 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 |