

# Recombinant Rat DNJC2 Protein

**For Research Use Only**

## 1. Basic Product Information

Catalog No.: REP52540

Size: 10ug, 100ug

Protein Name: DnaJ homolog subfamily C member 2 (Gliosarcoma-related antigen MIDA1) (Zuotin-related factor 1)

Synonym: Dnajc2, Mida1, Zrf1

UniProt ID: Q7TQ20

UniProt Link: [www.uniprot.org/uniprotkb/Q7TQ20/entry](http://www.uniprot.org/uniprotkb/Q7TQ20/entry)

Species Source: Rat

Expression System: HEK293T eukaryotic cell expression system Sequence

Length: 621 AA

Molecular Weight: 72 KD

Protein Tag: C-terminal His6

## 2. Amino Acid Sequence

MLLLPSAAEGQGTAITHALTSASAVCQVEPVGRWFEEAFVKRRNRNASTSFQELEDKKELSEESEDE  
ELQLEEFPMKLTDPKDWKNQDHYAVLGLGHVRYKATQRQIKAAHKTMLVKHHPDKRKAAGEPIKE  
GDNDYFTCITKAYEMLSDPVKRRAFNSVDPTFDNSVPSKSEAKENFFQVFSPVFERNRWSNKKNV  
PKLGDMNSSFEDVDAFYFYNFDSWREFSYLDEEEKEKAECRDERKWIEKQNRATRAQRKKEEM  
NRIRTLVDNAYSCDPRIKKFKEEGKAKKEAEKRAKAEARRKEQEAKEKQRQAELEAVRLAKEKEEEE  
VRQQALLAKKEKEIQKKAIKKERQKLRNSCKNWNHFSNEADRVKMMEEVEKLCDRLELASLQCLN  
EILASSTREVGKAALEKQIEEVNLMRKEKEEADARMRQASKNAEKSTGGSGSGSKNWSDDLQLLI  
KAVNLFPAGTNSRWEVIANYMNIHSSSGVKRTAKDVIGKAKSLQKLDPHQKDDINKKAFDKFKKEHG  
VAPQADSAAPSERFEGPCIDSIPWTTTEEQKLLEQALKTYPVNTPERWEKIAEAVPGRTKKDCMRRYK  
ELVEMVKAKKAAQEQVLNASRARK

## 3. Buffer Composition

Liquid format: PBS-based buffer containing 50% glycerol. Glycerol concentration can be customized upon customer request; please state special requirements when placing your order.

Lyophilized format: Buffer before lyophilization is PBS supplemented with 6% trehalose.

## 4. Storage Conditions

Upon receipt, store the product at -20 °C or -80 °C. Aliquot the product for on-demand use to preserve protein activity and prevent denaturation and inactivation caused by repeated freeze-thaw cycles.

## 5. Product Description

This product is recombinant DnaJ homolog subfamily C member 2 (Gliosarcoma-related antigen MIDA1) (Zuotin-related factor 1) produced using the HEK293T eukaryotic cell expression system. It is suitable for in-vitro functional assays, protein-protein interaction studies, antibody preparation and other biomedical research applications.

**Protein Function:** Acts both as a chaperone in the cytosol and as a chromatin regulator in the nucleus. When cytosolic, acts as a molecular chaperone: component of the ribosome-associated complex (RAC), a complex involved in folding or maintaining nascent polypeptides in a folding-competent state. In the RAC complex, stimulates the ATPase activity of the ribosome-associated pool of Hsp70-type chaperones HSPA14 that bind to the nascent polypeptide chain. When nuclear, mediates the switching from polycomb-repressed genes to an active state: specifically recruited at histone H2A ubiquitinated at 'Lys-119' (H2AK119ub), and promotes the displacement of the polycomb PRC1 complex from chromatin, thereby facilitating transcription activation.

**Subcellular Localization:** Nucleus . Cytoplasm, cytosol .

## 6. Notes

- Avoid repeated freeze-thaw cycles to maintain protein stability and biological activity.
- Please specify special buffer-composition requirements at the time of order placement.
- For research use only. Not intended for clinical diagnosis, therapeutic use or commercial manufacturing.