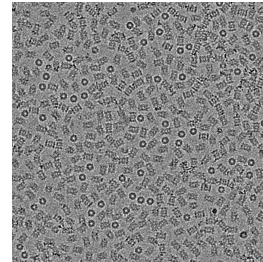


Feb 06, 2024

 Adolf & Du et al., 2024

DOI

<https://dx.doi.org/10.17504/protocols.io.e6nvwdrozlmk/v1>



Frank Adolf¹

¹Department of Molecular Machines and Signaling, Max Planck Institute of Biochemistry, 82152 Martinsried, Germany



Frank Adolf

Department of Molecular Machines and Signaling, Max Planck I...

Create & collaborate more with a free account

Edit and publish protocols, collaborate in communities, share insights through comments, and track progress with run records.

Create free account

OPEN  ACCESS



DOI: <https://dx.doi.org/10.17504/protocols.io.e6nvwdrozlmk/v1>

Collection Citation: Frank Adolf 2024. Adolf & Du et al., 2024 . protocols.io

<https://dx.doi.org/10.17504/protocols.io.e6nvwdrozlmk/v1>

Manuscript citation:

<https://www.biorxiv.org/content/10.1101/2024.01.27.577538v1>

License: This is an open access collection distributed under the terms of the [Creative Commons Attribution License](#), which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited

Protocol status: Working

We use this collection and it's working

Created: February 06, 2024

Last Modified: May 31, 2024

Collection Integer ID: 94762

Keywords: ASAPCRN, proteasome, core particle, 20S proteasome, chaperone, molecular machine, multiprotein complex, POMP, PAC1, PAC2, PAC3, PAC4, propeptide, protease, structural determination by transmission electron cryo, transmission electron cryo, methods for cloning, electron cryo, cloning, microscopy, assembly intermediate, purification, structural determination

Funders Acknowledgements:

Aligning Science Across Parkinson's (ASAP)

Grant ID: ASAP-000282

Abstract

These protocols details methods for cloning, expression, purification and structural determination by transmission electron cryo-microscopy of 20S CPs and assembly intermediates.

Guidelines

Please familiarise yourself with the laboratory safety rules and guidelines and follow these while performing the experiment. Please wear appropriate PE while performing the experiment.

Safety warnings

- ⚠ Please refer to the Safety Data Sheets (SDS) for health and environmental hazards. Liquid nitrogen (LN2) and other cryogenics can cause severe damage to the skin and eyes. Always wear personal protective equipment when handling these cryogenics.

Files

 SEARCH

Protocol



NAME

Cloning, Protein Expression, and Purification of 20S CPs and Assembly Intermediates

VERSION 1

CREATED BY



Frank Adolf

Department of Molecular Machines and Signaling, Max Planck Institute of Biochemistry, 82152 Martinsried, Germany

OPEN →

Protocol



NAME

Structural Analysis of 20S CPs and Assembly Intermediates by Electron Cryo-Microscopy

VERSION 1

CREATED BY



Frank Adolf

Department of Molecular Machines and Signaling, Max Planck Institute of Biochemistry, 82152 Martinsried, Germany

OPEN →