



Mar 15, 2024

Bulk RNA sequencing

 [Science Advances](#)

DOI

<https://dx.doi.org/10.17504/protocols.io.36wgqjqbkvk5/v1>

anita.adami¹

¹Laboratory of Molecular Neurogenetics, Department of Experimental Medical Science, Wallenberg Neuroscience Center and Lund Stem Cell Center, BMC A11, Lund University, 221 84 Lund, Sweden.



Raquel Garza

Lund University

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.36wgqjqbkvk5/v1>

External link: <https://doi.org/10.1126/sciadv.adh9543>

Protocol Citation: anita.adami 2024. Bulk RNA sequencing. **protocols.io**
<https://dx.doi.org/10.17504/protocols.io.36wgqjqbkvk5/v1>



Manuscript citation:

Raquel Garza, Diahann A. M. Atacho, Anita Adami, Patricia Gerdes, Meghna Vinod, PingHsun Hsieh, Ofelia Karlsson, Vivien Horvath, Pia A. Johansson, Ninoslav Pandiloski, Jon Matas-Fuentes, Annelies Quaegebeur, Antonina Kouli, Yogita Sharma, Marie E. Jönsson, Emanuela Monni, Elisabet Englund, Evan E. Eichler, Molly Gale Hammell, Roger A. Barker, Zaal Kokaia, Christopher H. Douse, Johan Jakobsson (2023) LINE-1 retrotransposons drive human neuronal transcriptome complexity and functional diversification. Science Advances doi: [10.1126/sciadv.adh9543](https://doi.org/10.1126/sciadv.adh9543)

License: This is an open access protocol 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 protocol and it's working

Created: March 03, 2023

Last Modified: May 31, 2024

Protocol Integer ID: 78066

Keywords: ASAPCRN, bulk rna, rna, bulk, protocol

Funders Acknowledgements:

Aligning Science Across Parkinson's through the Michael J. Fox Foundation for Parkinson's Research

Grant ID: ASAP-000520

Swedish Research Council

Grant ID: 2018-02694

Swedish Brain Foundation

Grant ID: FO2019-0098

Cancerfonden

Grant ID: 190326

Barncancerfonden

Grant ID: PR2017-0053

NIHR Cambridge Biomedical Research Centre

Grant ID: NIHR203312

Swedish Society for Medical Research

Grant ID: S19-0100

National Institutes of Health

Grant ID: HG002385

Swedish Research Council

Grant ID: 2021-03494

Swedish Research Council

Grant ID: 2020-01660

Abstract

This protocol describes how to perform bulk RNA sequencing



Bulk RNA sequencing

- 1 Total RNA was isolated from nuclei (**Nuclear Extraction from Tissue for FACS**), cell culture samples, or tissue using the RNeasy Mini Kit (Qiagen).
- 2 Libraries were generated using Illumina TruSeq Stranded mRNA library prep kit (poly-A selection) and sequenced on a NextSeq500 (PE 2×150bp).