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Glucocerebrosidase is imported into mitochondria and preserves complex I integrity and energy metabolism - ASAP protocol collection

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Protocol status: Working

We use this collection and it's working

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Abstract

Collection of protocols of Deleidi Lab used in the publication: "Glucocerebrosidase is imported into mitochondria and preserves complex I integrity and energy metabolism"

Troubleshooting

Files

 SEARCH

Protocol

NAME
Gcase co-immunoprecipitation

VERSION 1

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Protocol

NAME
Single cell dissociation of brain organoids

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Plasmid-reprogramming of human fibroblasts

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Sequencing of construct

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Protocol

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Single cell analysis of iPSC-derived midbrain organoids

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Complex I activity assay

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Protocol

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Midbrain-like Organoids generation from hiPSCs

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Soluble and insoluble A-SYN fractionation

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Mitochondrial complex activity assays

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Protocol

NAME

Neuromelanin staining (Fontana-Masson staining)+ TH-DAB staining on midbrain organoids

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Differentiation NPCs to Dopaminergic/Midbrain Neurons

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Immunofluorescence staining

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In vitro GCase activity assay (total cell lysate)

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Protocol

NAME

Flag co-immunoprecipitation

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Protocol

NAME

Constructs and generation of stable cell lines

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