Reviewer’s report

Title: Identification of VPS35 p.D620N mutation-related Parkinson's disease in a Taiwanese family with successful bilateral subthalamic nucleus deep brain stimulation: a case report and literature review

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Reviewer: Alessio Di Fonzo

Reviewer's report:

In this manuscript the authors describe the finding of a VPS35 D620N mutation in a Taiwanese PD patient highlighting the good response to STN-DBS and the novelty of the presence of VPS35 mutations in that population.

I have few minor remarks:

- Results: the number of Taiwanese controls from the WGS database Taiwan Biobank should be reported in the main text

- Results: did the authors find any other rare variant within the genes of the NGS panel? has the duplication/triplication of SNCA gene been tested in this family with autosomal dominant PD?

- Fig. 1: I suggest to report the age of onset of the affected individuals in the pedigree

- Fig. 2: The reverse complement electropherogram is not needed

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes
Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

Not relevant to this manuscript

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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