Reviewer's report

Title: Functional characterisation of the TSC1-TSC2 complex to assess multiple TSC2 variants identified in single families affected by tuberous sclerosis complex

Version: 2 Date: 29 October 2007

Reviewer: Markus Hengstschläger

Reviewer's report:

This is an important study of the relevance of mutations within the TSC2 gene for specific functions of tuberin. The biological question of this study is of interest for the field, the experimental approaches are well performed and presented, and the obtained results allow to draw the presented conclusions.

It would be of help, if the authors would include a discussion of the aspect that TSC2 mutations not affecting tuberin’s functions within the mTOR pathway could still cause tuberous sclerosis by affecting other functions, such as e.g. the regulation of the cell cycle molecule p27.

What next?: Accept after minor essential revisions

Level of interest: An article of importance in its field

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

I declare that I have no competing interests.