Reviewer’s report

Title: Nck2 promotes human melanoma cell proliferation, migration and invasion in vitro and primary melanoma-derived tumor growth in vivo

Version: 1 Date: 1 September 2011

Reviewer: Calvin Roskelley

Reviewer’s report:

This is a careful, well-thought out and executed study which demonstrates that forced regulation of nck-2 leads to an increase in tumorigenic characteristics, including motogenic invasion in primary human melanoma cells.

Overall, the conclusions made are well supported by both the experimental and the correlational data presented.

Thus, no compulsory major revisions are requested.

From a minor revision point of view, the authors should refrain from stating, as they do in the discussion, that their investigation has been focussed on determining the mechanism responsible by which overexpressed Nck2 contributes to tumor progression.

From a discretionary point of view the authors may wish to consider the discussing the question of whether nck2 overexpression is necessary for melanoma progression given that all their experimental gain of function data point towards sufficiency.

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:

None.