Reviewer’s report

Title: Systematic validation of predicted microRNAs for cyclin D1

Version: 1 Date: 15 January 2009

Reviewer: Sifeng Chen

Reviewer’s report:

The study screened 58 computer-predicted miRNAs for CCND1 and found miR-503 was able to reduce S phase cell populations and cause cell growth inhibition. In general, the study is well done and the results are convincing. The results are interesting and show certain significance. However, there are several concerns from this reviewer.

Major Compulsory Revisions:
1. To extend the significance of this study to diagnosis and mechanism research (other than therapeutic potential), the existence of miR-503 in normal and cancer cells should be measured by RT-PCR.
2. In Fig. 4, each pair of the Western images of CCND1 and #-actin should come from a same gel.

Minor Essential Revisions:
1. There are several repeat descriptions in Introduction section and should be avoided.
2. Summary of results in Introduction section is no necessary.
3. “bee” in page 6, line 7 should be “been”. There are several grammar errors should be fixed.
4. There are 4 previously reported microRNAs for CCND1. The authors should discuss why the results regarding these 4 microRNAs are different from the literatures.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Acceptable

Statistical review: Yes, and I have assessed the statistics in my report.

Declaration of competing interests:
I declare that I have no competing interests;