Reviewer’s report

**Title:** Characterization of global microRNA expression reveals oncogenic potential of miR-145 in metastatic colorectal cancer.

**Version:** 1 **Date:** 15 February 2009

**Reviewer:** George A Calin

**Reviewer’s report:**

The manuscript by Arndt and colleagues report on a surprising discovery – the fact that two members of one of the most downregulated microRNAs in colon cancers have opposite effects on proliferation on a metastatic colorectal cancer model (SW620). The authors start with a profiling study and further continue with functional data. The experiments are designed well and the conclusions are supported by the results. The dual nature – oncogene and suppressors of miR-145 was previously found also for the oncomiR-1 and for the let-7 and therefore this represents another example of dual function microRNAs. This report is of interest for the readers of the journal and it represents a significant advance in the field.

**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.