Reviewer's report

Title: A possible role for miRNA silencing in disease phenotype variation in Swedish transthyretin V30M carriers

Version: 2 Date: 15 July 2010

Reviewer: Joel Buxbaum

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Re: my first comment regarding multiple comparisons: It is not clear to me how the authors adjusted for multiple comparisons. They should state the method they used. For instance if the used Bonferroni then a statistically significant difference with 16 comparisons is a P value of <0.003 (0.05/16). Then only rs62093482 would be significant, which is OK regarding the main point of the paper, but rs71383038 and 3794885 would not be significant.

A point I missed in my original review is that the frequency of the significant snp is not stated to differ between early and late onset Swedish FAP cases. If that is correct then it is difficult to accept without further explanation that putative microRNA binding impacts on penetrance. The point made by Soares et al in reference 27 was that the differences were between early and late onset cases in Portuguese patients with early and late onset.

On page 12 where the authors have inserted a paragraph and quoted ref 24 (their own work) they have not removed the sentence referring to reference 23 which reference 24 indicates was incorrect.