Reviewer's report

Title: Screening of potential target genes for cataract by analyzing mRNA expression profile of mouse Hsf4-null lens

Version: 2  Date: 24 March 2015

Reviewer: Lisha Mou

Reviewer's report:

Hsf4-null mice have defects in lens which lead to the cataract formation. The authors explored the molecular mechanism by microarray analysis. This is an interesting and valuable study. I have several comments on it.

1. Please give some detail on the genetic background of the Hsf4-null mice in this work.

2. For functional analysis, besides the general analysis by DAVID, if it is possible for the authors to combine the lens differentiation or cataract development data for further comparison?

3. Generally, after microarray analysis, it is very necessary to confirm the findings by realtime PCR, there is no such data in this manuscript.

Minor Essential Revisions.

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

Quality of written English: Needs some language corrections before being published

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