Reviewer’s report

Title: The UMODL1 gene as a susceptibility gene for high myopia: a case-control association study in Chinese

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Reviewer: Xiangtian Zhou

Reviewer’s report:

In this work, the authors replicated a previous identified susceptibility gene for high myopia, UMODL1, by genotyping 59 tag SNPs of this gene in ~900 Chinese patients and ~800 health controls. After analysis using single marker, haplotype cluster, and haplotype based algorithm, the authors noticed that no association between this gene and the prevalence of high myopia in Chinese. Moreover, they also identified the rs220120 may correlated with the ACD in high myopia patients.

The method used in this study is quite well. The authors adopted different strategy to search the association between UMODL1 and high myopia in different level. Although the results are negative, this may indicate the differences in the genetic factor of high myopia between Chinese and Japanese. So, in my opinion, this work is suitable to be published.

Blow is some minor comment about this work:

1. I am interested in the LD between rs220120 and rs2839471, whether the different results are caused by the different in the ACD of the test samples?
2. The total number of cases in this study is 892 (1784 alleles), but the alleles showed in figure 1 are only 1089; the authors should explain why the analyzed alleles are less than the tested alleles.

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.