Reviewer's report

Title: Identification of transcription factor and single nucleotide polymorphisms of Lrh1 and its homologous genes in Lrh1-knockout pancreas of mice

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Reviewer: Minoti V. V. Apte

Reviewer's report:

The paper titled “Identification of transcription factor and single nucleotide polymorphisms of Lrh1 and its homologous genes in Lrh1-knockout pancreas of mice” has merit because it is an interesting paper, mainly identify transcription factors and single nucleotide polymorphisms of Lrh1 using multiple bioinformatics tools. The manuscript is easy to follow, but some minor errors need to check and correct.

Comments:
1. The sentence: “…and its homology genes provided the candidate mutant sites might affect the regulation…” in Abstract and page 9 line 3 has grammar problem, please revise it.
2. The “Lrh1” page 4 line 20 should be “Lrh1”
3. The authors use “Lrh1” in first part, however, “Nr5a2” is used in later parts. In my opinion, it is better to unify the name of “Lrh1” or “Nr5a2” in the whole manuscript.
4. The sentence: “…total 1819 SNPs of Phkb was intron type and 1343 SNPs was upstream type that was nearly 68% of…” in page 7 line 7 has grammar problem, please revise it. Apart from it, the “was” in the sentence should be “were”.
5. In Discussion, the authors use “FTF” and “FTF”, please unified it.
6. The references should be added in sentence “Many literatures have elucidated the function of Lrh1/ Nr5a2/ FTF/CYP7A …” in page 7 line 13, and “Out C et al. have suggested that CYP7A1 expression…” in page 8 line 6.

Level of interest: An article of importance in its field

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