Reviewer's report

Title: Limited antigenic diversity of Plasmodium falciparum apical membrane antigen 1 supports the development of effective multi-allele vaccines

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Reviewer: Kazutoyo Miura

Reviewer's report:

The authors’ replies are adequate and I have no major concerns for the acceptance of this manuscript. However, following minor errors should be fixed before publication.

Minor Essential Revisions

1) On page 12 (p12)
   “Competition with combinations of 4 different… three alleles (Fig S7, C1)”. It should be Fig S5, instead of Fig S7.

2) p14
   The authors should put “(Fig. 8)” somewhere, such as “…antibody cross-reactivity varied fro the different alleles (Fig 8)”.
   “(eg. HB and D10, Fig 7E)” should be (eg. HB and D10, Fig 8) or (eg. HB and D10, Fig 8E and 8F, respectively)

3) p30 (legend to Fig 5)
   “…all combination competition ELISAs are shown in supplementary data Figure S2. For each figure (A1-E1, and A2-E2),…”
   “Figure S2” should be “Figure S6”, “A1-E1” should be “A1-D1”, and “A2-E2” should be “A2-D2”

4) Fig 2C
   For the children data, it is better to show the data in the same order; i.e., 7G8 data should be the top, and w2mef data should be the second.

5) Fig 9A
   Either 1) to take out “Cluster Group 2”, or 2) to add “Cluster Group 6” (but not Allele data).

Quality of written English: Acceptable

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