

SUPPORTING INFORMATION

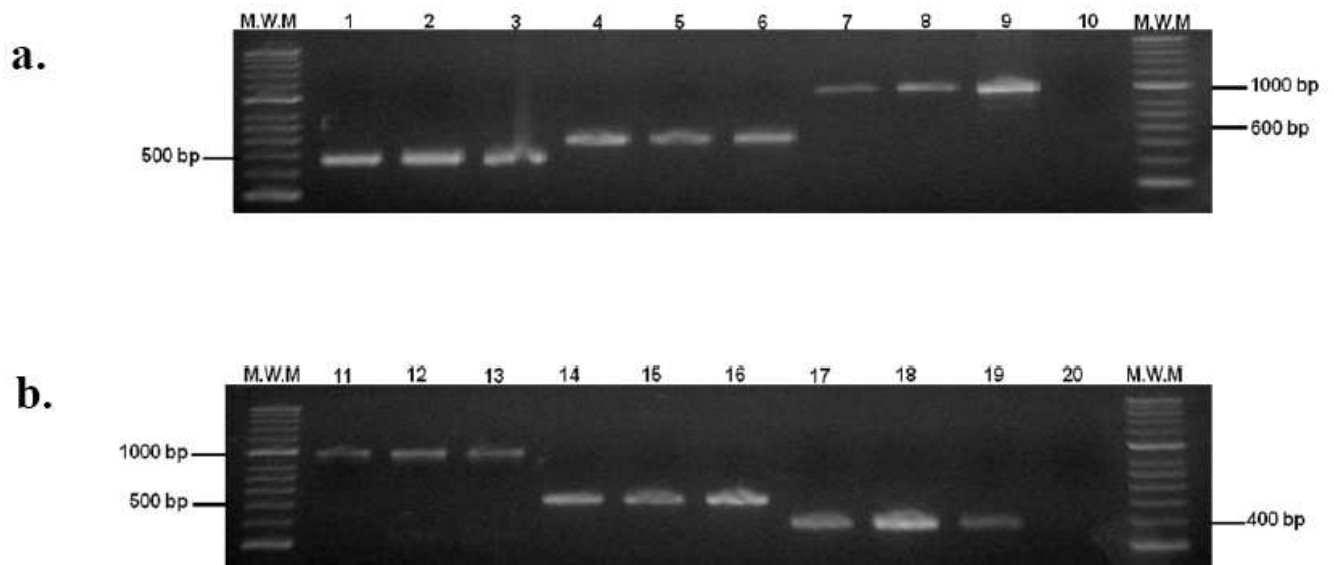
Well-defined regions of the *Plasmodium falciparum* reticulocyte binding protein homologue 4 mediate interaction with red blood cell membrane

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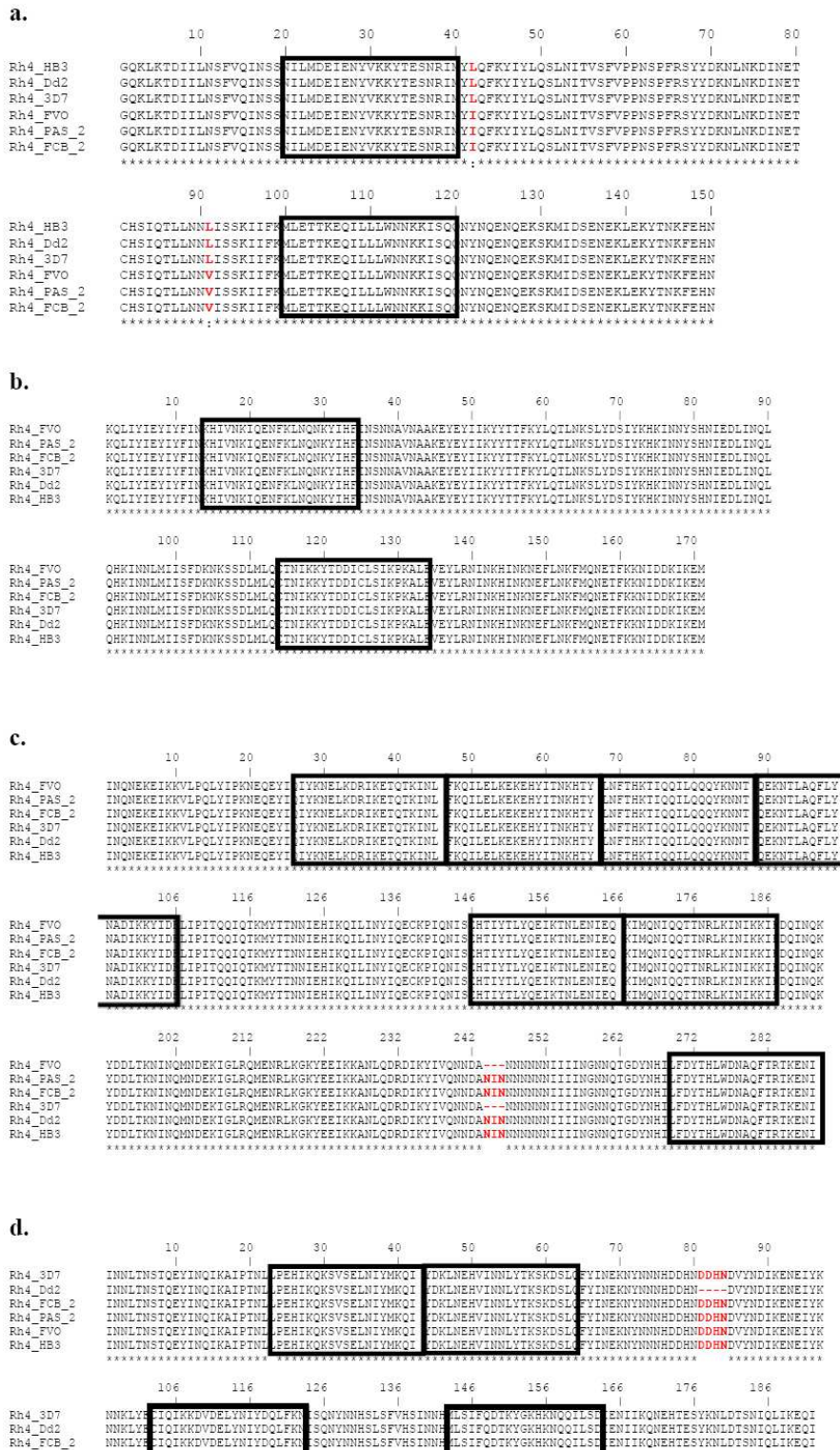
Table of Contents:

S2. PCR amplification of the gene segments encoding *Pf*RH4 HABPs

S3. Amino acid alignment of the gene segment encoding *Pf*RH4 HABPs in the *P. falciparum* 3D7, FCB-2, FVO, PAS-2, HB3 and Dd2 strains



Supplementary Figure 1. PCR amplification of the gene segments encoding *Pf*RH4 HABPs. **a.** Lanes 1, 2 and 3: *Pf*RH4 segment encoding HABPs 34178 and 34182 in the FCB-2, FVO and PAS-2 strains, respectively. Amplification products of the other gene segments encoding HABPs were loaded into the gel maintaining the same strain order. Lanes 4, 5 and 6: *Pf*RH4 segment encoding HABPs 34190 and 34195. Lanes 7, 8 and 9: *Pf*RH4 segment encoding HABPs 34203, 34204, 34205, 34206, 34209, 34210 and 34215. **b.** Lanes 11, 12 and 13: *Pf*RH4 segment encoding HABPs 34223, 34224, 34227, 34229 and 34234. Lanes 14, 15, and 16: *Pf*RH4 segment encoding HABPs 34237, 34238, 34239, 34242 and 34243. Lanes 10 and 20: Negative control. Lanes 17, 18 and 19: Positive control: amplification of *Pf*25-IMP HABP 30577. M.W.M: 100-bp molecular weight marker.



Supplementary Figure 2. Amino acid alignment of the gene segment encoding *Pf*RH4 HABPs in the *P. falciparum* 3D7, FCB-2, FVO, PAS-2, HB3 and Dd2 strains. Black boxes indicate the position of each HABP. Amino acid substitutions, insertions and deletions are typed in red. **a.** HABPs 34178 and 34182. **b.** HABPs 34190 and 34195. **c.** HABPs 34203, 34204, 34205, 34206, 34209, 34210 and 34215. **d.** HABPs 34223, 34224, 34227, 34229 and 34234. **e.** HABPs 34237, 34238, 34239, 34242 and 34243.