

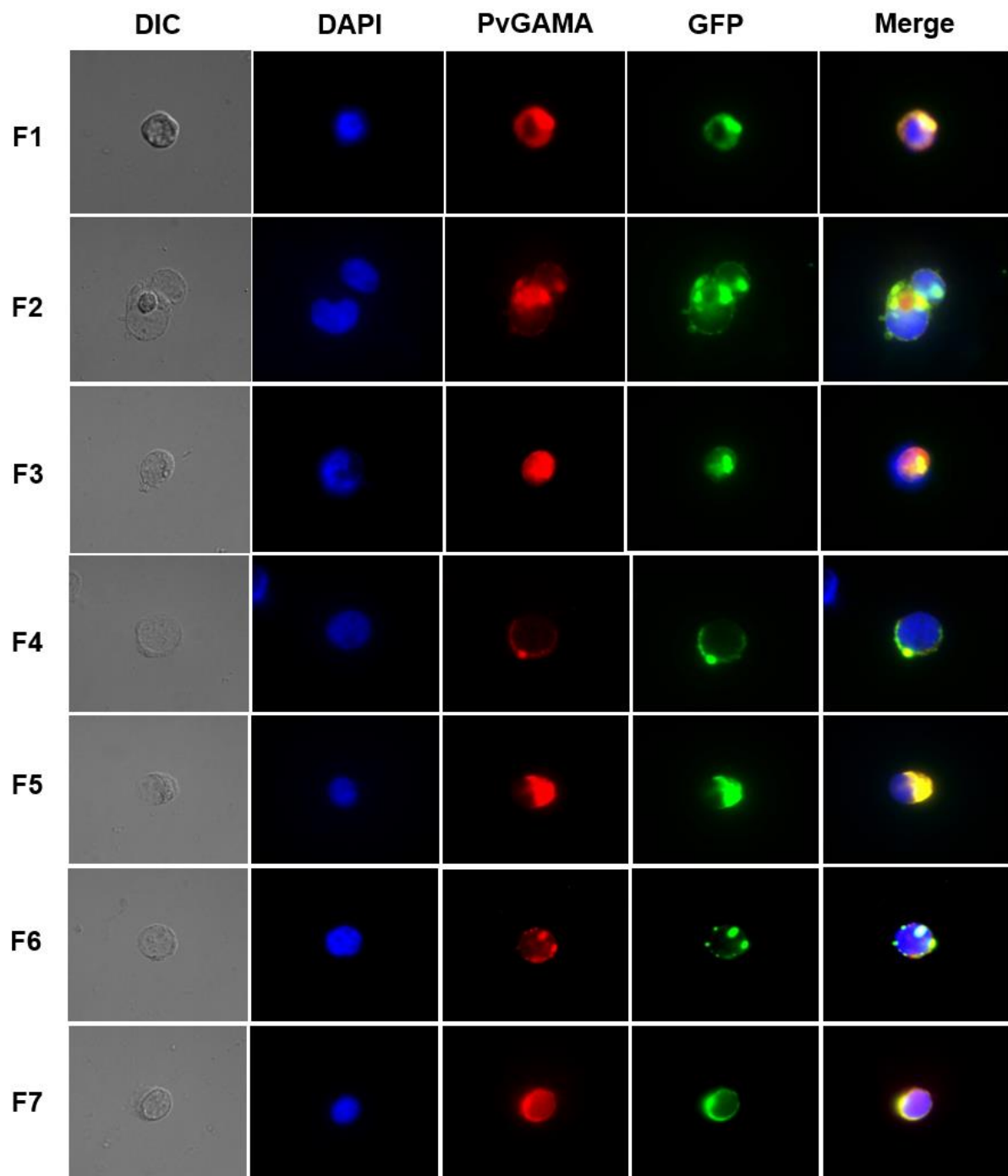
## Supplementary Information

### ***Plasmodium vivax* GPI-anchored micronemal antigen (PvGAMA) binds human erythrocytes independent of Duffy antigen status**

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masks indicate conserved Asn residues region. High conserved region between PvGAMA and PfGAMA was marked with green. Blue line indicated PvGAMA-F2. Ala/Asn-riched region marked with red at the C-terminus of PfGAMA. Dashes indicate a deletion. Asterisks, colons and dots under the alignment indicated identical, conserved, and semi-conserved substitutions, respectively, based on BLOSUM.



**Supplementary Figure S2. Transfection induced expression of PvDBPII and PvGAMA fragments on the surface of HEK 293T cells.** Expression of PvDBPII and each fragment of PvGAMA on HEK 293T cells transfected with pEGFP-HSVgD1\_PvDBPII, and \_PvGAMA-F1 to -F7 (Fig. 1a) plasmid DNA were detected by IFA. Green fluorescent protein (GFP) (green, control), Alexa Fluor 568-conjugated goat anti-rabbit antibody (red, PvGAMA fragments) were used and visualized by confocal microscopy. Rabbit antisera against Phosphate-buffered saline (PBS) was used as negative control.