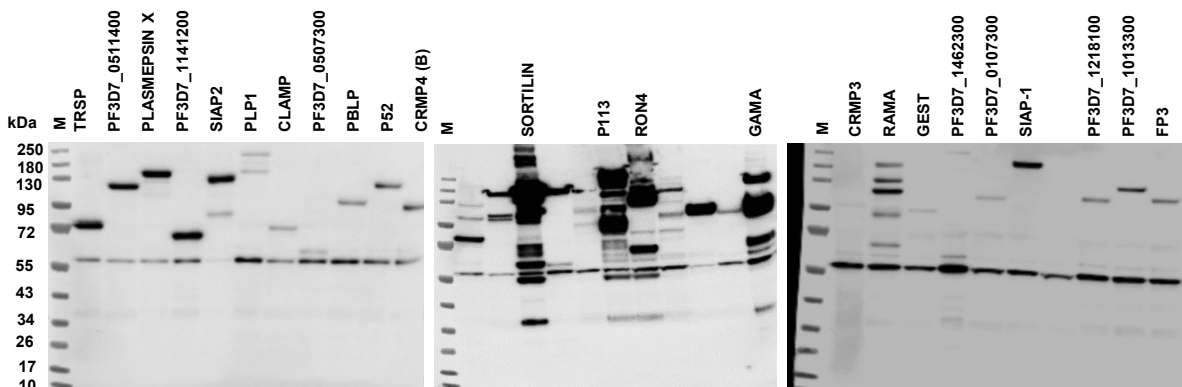
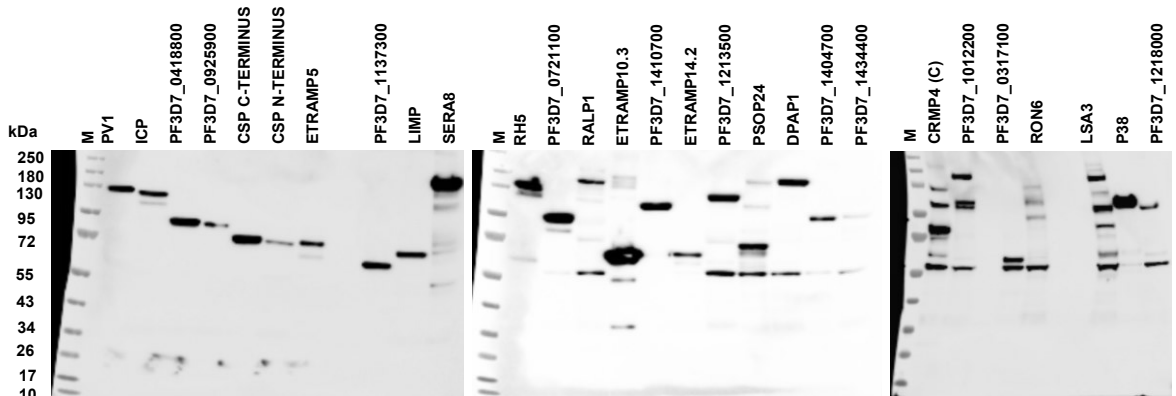
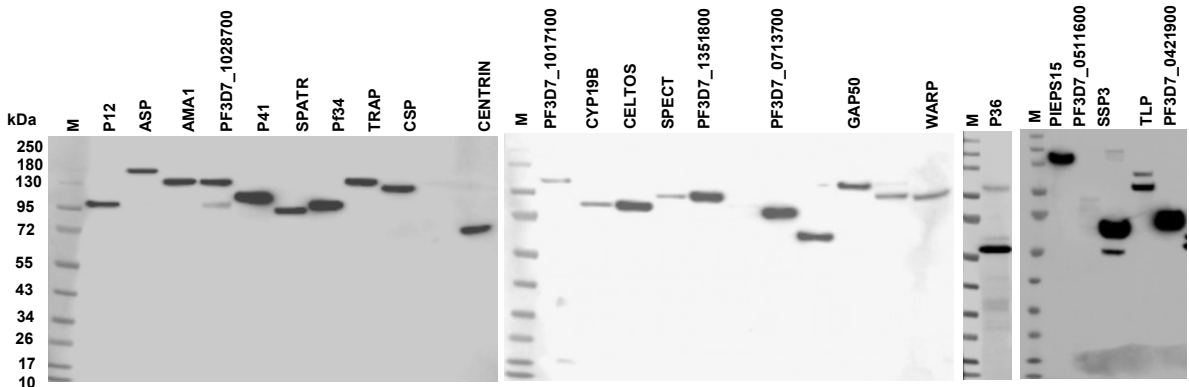
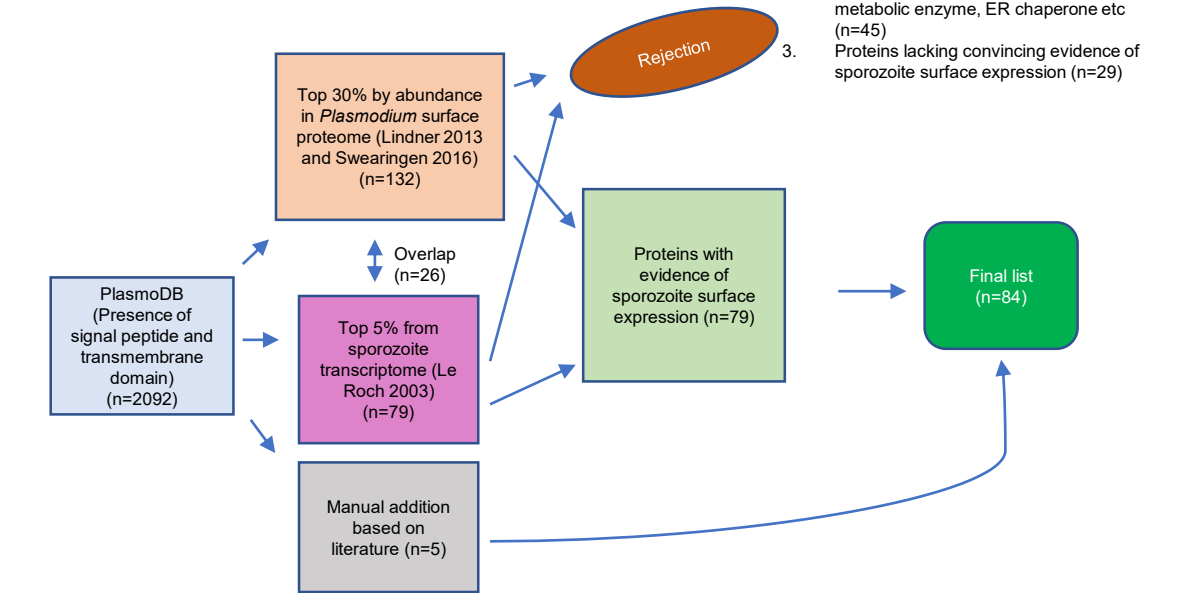


# Supplementary Figure 1

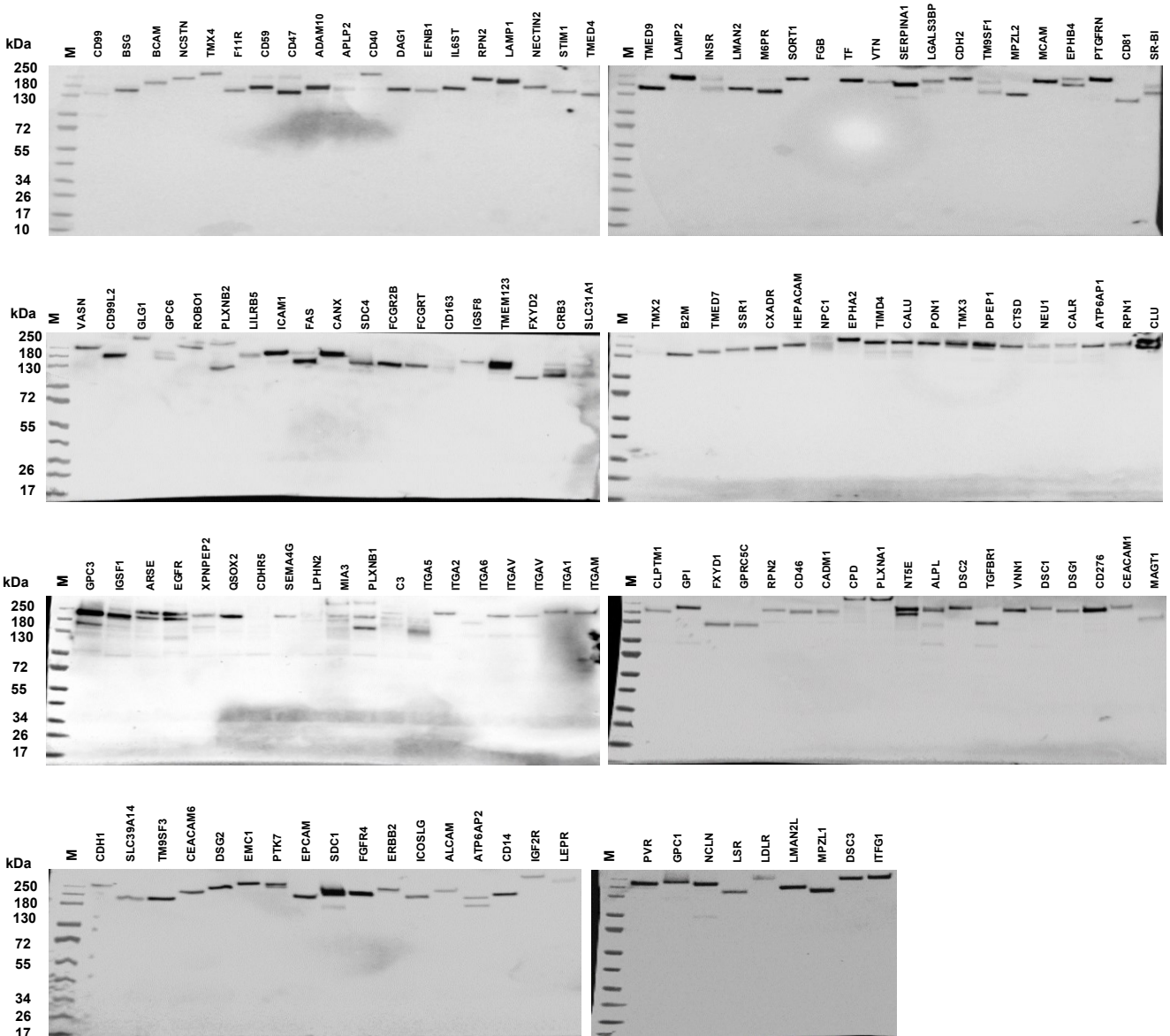
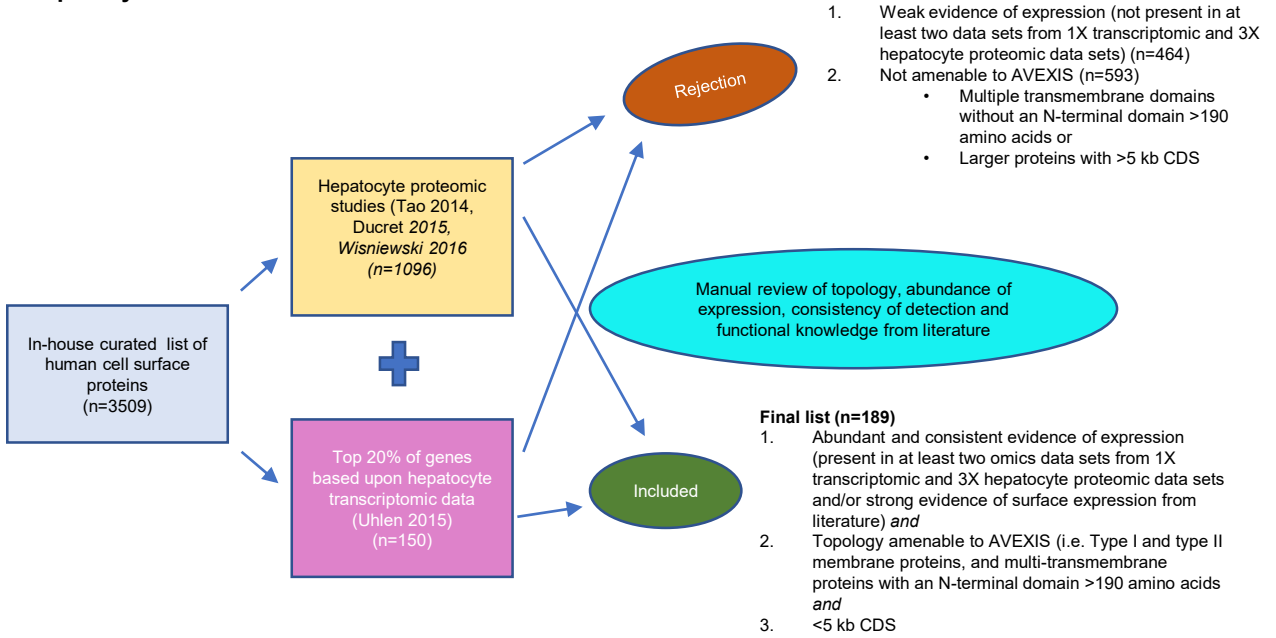
## Sporozoite candidates selection

1. No signal peptide or multiple transmembrane domains (n=32).
2. Functional evidence of other roles e.g. metabolic enzyme, ER chaperone etc (n=45)
3. Proteins lacking convincing evidence of sporozoite surface expression (n=29)



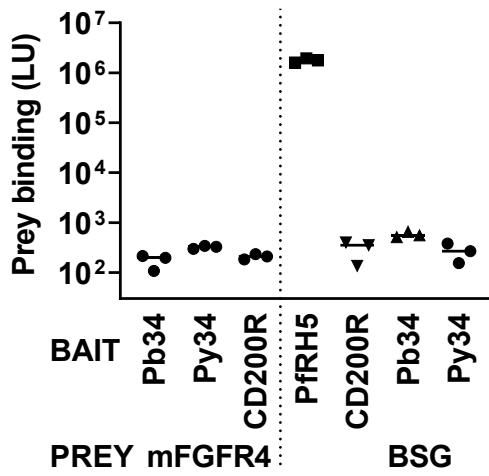
# Supplementary Figure 2

## Hepatocyte candidates selection

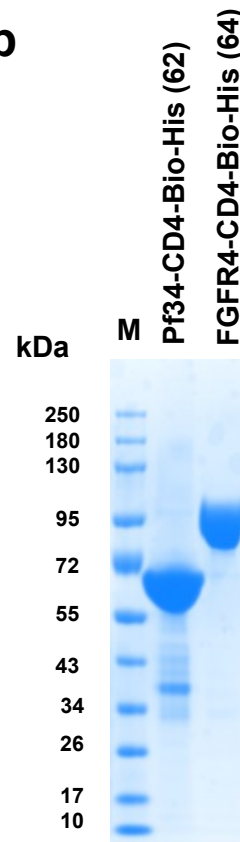


# Supplementary Figure 3

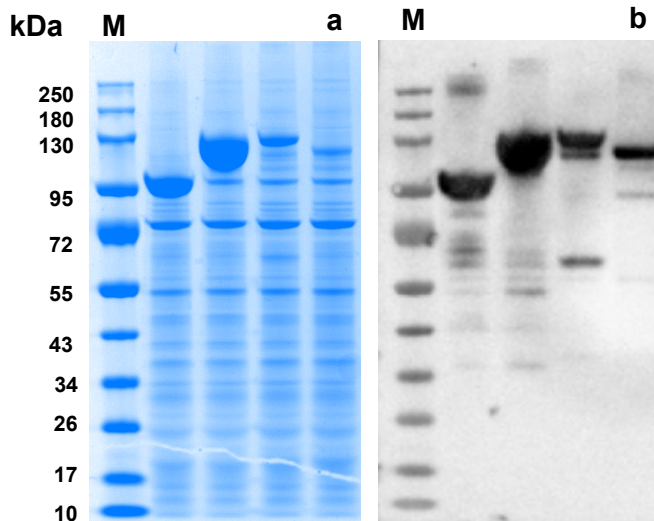
**a**



**b**

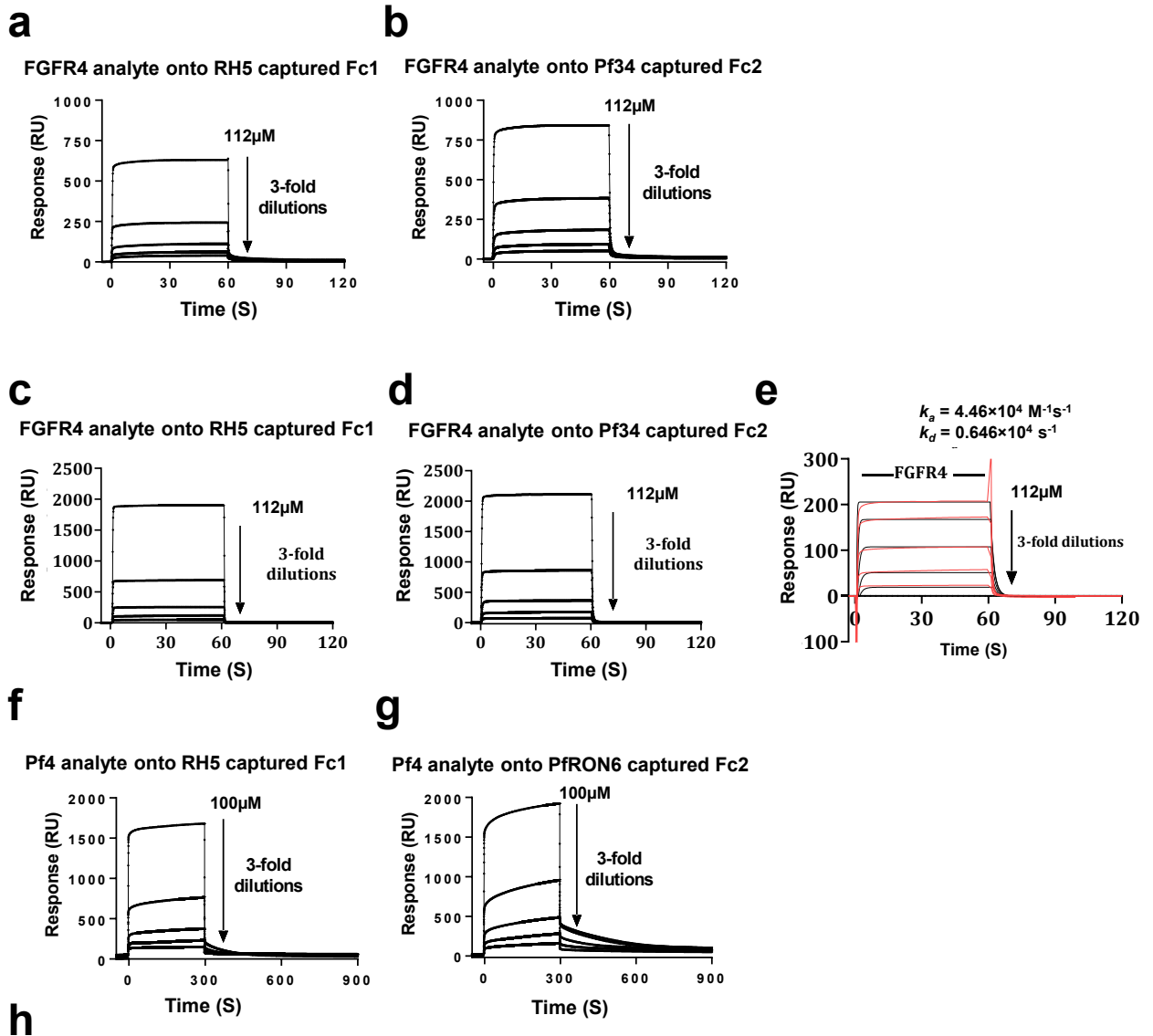


**c**



a, b: PfRON6 C-terminal bait (100)

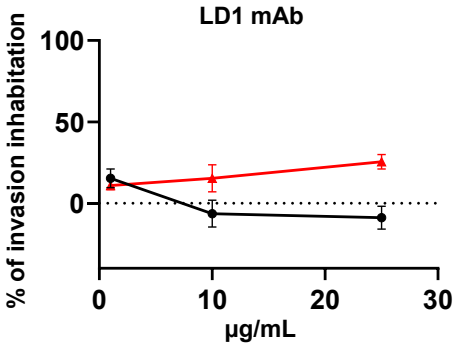
# Supplementary Figure 4



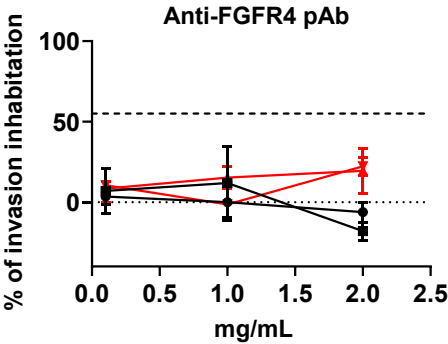
Interaction	Experiment	Ligand	Analyte	$K_a$ ( $\text{M}^{-1}\text{S}^{-1}$ )	SE of $K_a$ ( $\text{M}^{-1}\text{S}^{-1}$ )	$K_d$ ( $\text{S}^{-1}$ )	SE of $K_d$ ( $\text{S}^{-1}$ )	$K_D$ (M)	$K_D$ (mg/mL)	Interaction half-life (sec)	$R_{\text{max}}$ (RU)	$\text{Chi}^2$ ( $\text{RU}^2$ )
Pf34-FGFR4	1	Pf34	FGFR4	1.6E+04	1.8E+02	6.8E-01	6.7E-03	4.7E-05			288.9	27.5
	2	Pf34	FRGR4	4.4E+04	8.4E+02	6.4E-01	1.1E-02	1.4E-05			232	120
	Median			<b>3.0E+04</b>	<b>5.1E+02</b>	<b>6.6E-01</b>	<b>8.9E-03</b>	<b>3.1E-05</b>	<b>2</b>	<b>1</b>		
Pf34-PfRON6	1	PfRON6 C-terminal fragment	Pf34	5.2E+02	2.2E+00	1.5E-03	5.0E+06	2.9E-06			196	293

# Supplementary Figure 5

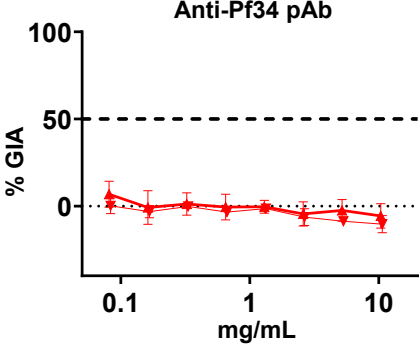
**a**



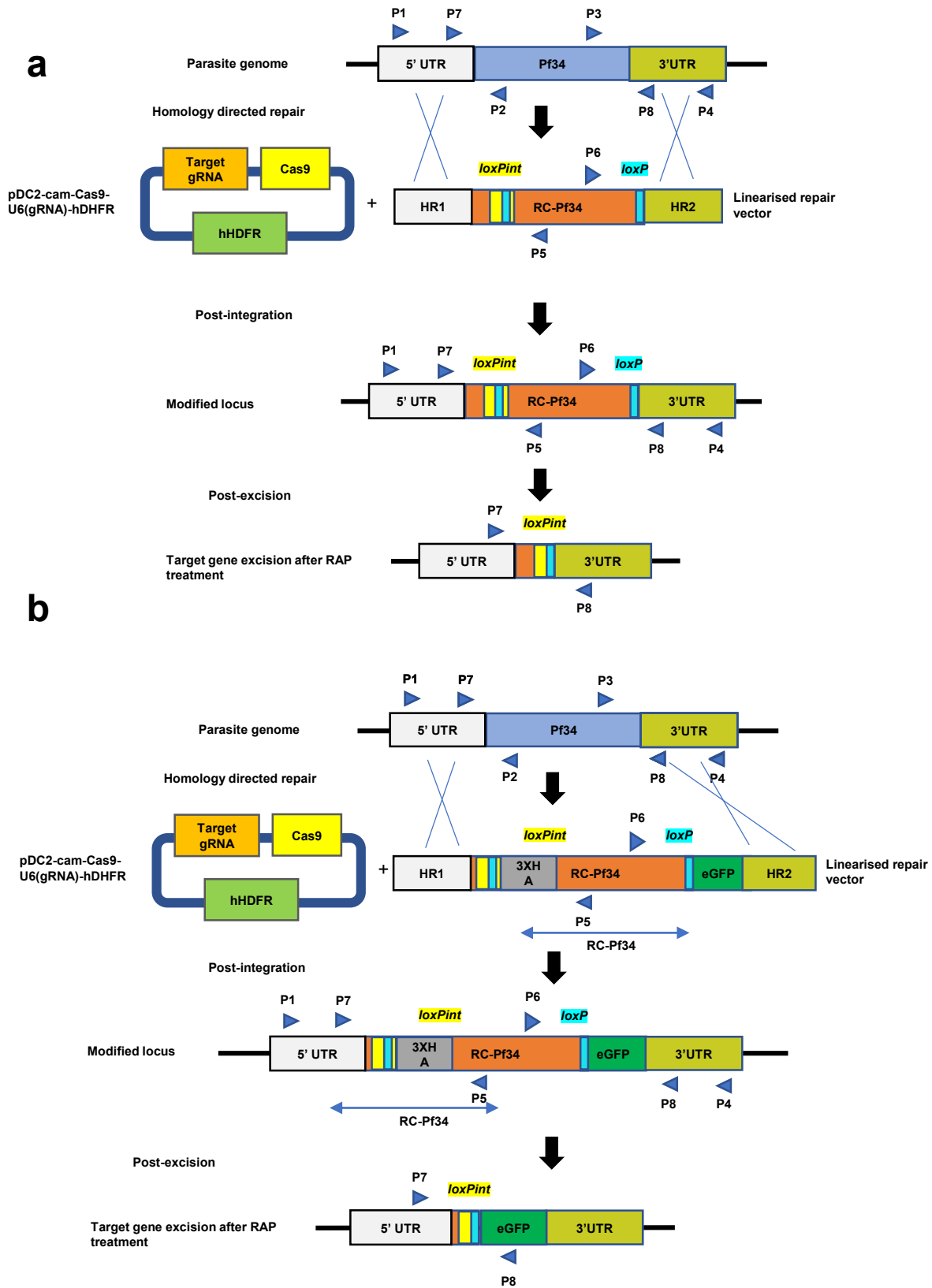
**b**



**c**



# Supplementary Figure 6



# Supplementary Figure 7

