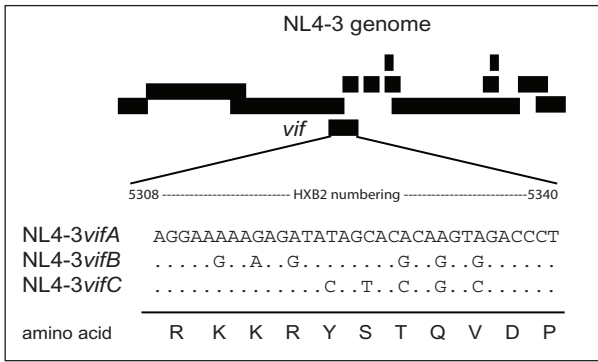
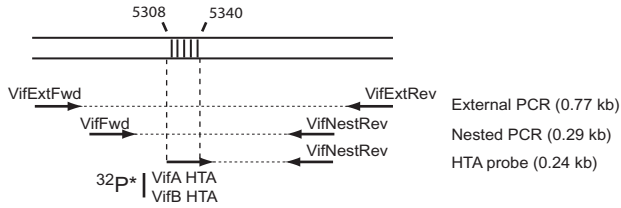


A Pairwise competition with *vif* tags



B PCR and heteroduplex tracking assay



Probe *vifA*
vifA mono-infection
vifB mono-infection
 (YT) *vifA* vs
 (YA) *vifB*

NL4-3-V3_{A1-92RW009}(YT) *vifA* production = b/a
 NL4-3-V3_{A1-92RW009}(YA) *vifB* production = d/c

$$W_{(vifA)} = \frac{b/a}{d/c + b/a} \times 2$$

$$W_{(vifB)} = \frac{d/c}{b/a + d/c} \times 2$$

$$W_d = W_{(vifA)} / W_{(vifB)}$$



C Pairwise competition

■ NL4-3-V3_{A1-92RW009}(YA)

□ NL4-3-V3_{A1-92RW009}(YT)

Fitness difference ($W_d = w_{[YT]} / w_{[YA]} = 3.54$)

