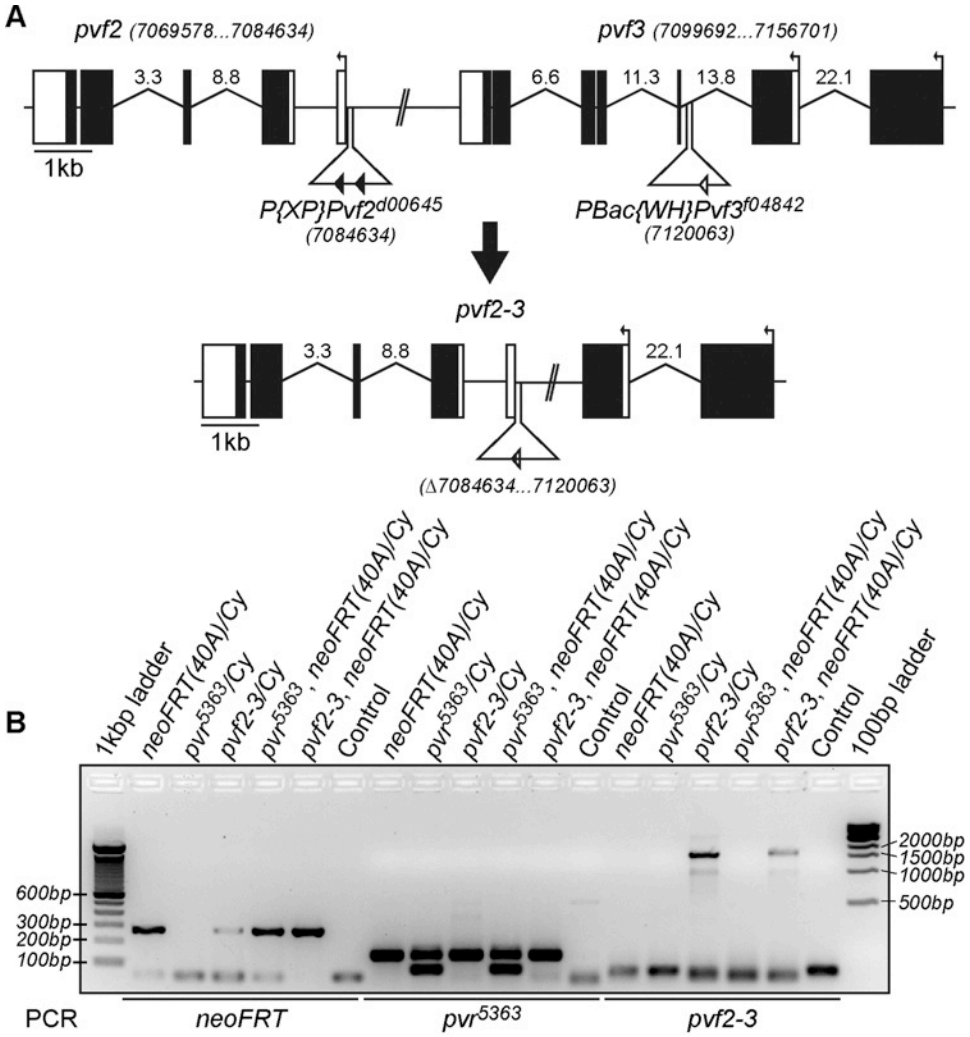
SUPPLEMENTARY

FIGURE S1. Generation of *pvr*^{5363} and *pvf2-3* mutant clones. A. Diagram of *P{XP}Pvf2*^{d00645} and *PBac{WH}Pvf3*^{f04842} *P* element insertions into *pvf2* and *pvf3* genes, respectively (top diagram). *P* element excision by recombination removed the promoter region of *pvf2* and *pvf3* after the first exon to generate *pvf2-3* deletion mutant (bottom diagram). Black and white boxes represent translated and untranslated sequence, respectively. Transcription initiation sites are indicated with arrows and the *P* element recombination sites depicted with triangles. The scale bar indicates 1kbp, and long intronic regions are shown as bent lines with their sizes labeled above. B. Generation of *pvf2-3, neoFRT(40A)* and *pvr, neoFRT(40A)* recombinants for MARCM. Single fly PCR of *neoFRT(40A)* (lanes 2-7), *pvr*^{5363} (lanes 8-13), *pvf2-3* (14-19). The individual genotypes are indicated. Ladders are shown in lane 1 (100bp) and lane 20 (1kbp) and with labeled with respective bands sizes. PCR of the gene region flanking the 63bp deletion found in *pvr*^{5363} generates a band of ~160bps in wildtype *pvr* and ~100bps in the *pvr*^{5363}. PCR of DNA from heterozygous *pvr*^{5363} flies show 2 bands at ~100bps and ~160bps (lanes 9 and 11).

Figure S1-


A
pvf2 (7069578...7084634)
pvf3 (7099692...7156701)
3.3
8.8
6.6
11.3
13.8
22.1
1kb
P{XP}Pvf2d00645
(7084634)
PBac{WH}Pvf3f04842
(7120063)
pvf2-3
3.3
8.8
22.1
1kb
(Δ7084634...7120063)
B
1kbp ladder
neoFRT(40A)/Cy
pvr5363/Cy
pvf2-3/Cy
pvr5363 , neoFRT(40A)/Cy
pvf2-3, neoFRT(40A)/Cy
Control
100bp ladder
600bp
300bp
200bp
100bp
2000bp
1500bp
1000bp
500bp
PCR
neoFRT
pvr5363
pvf2-3