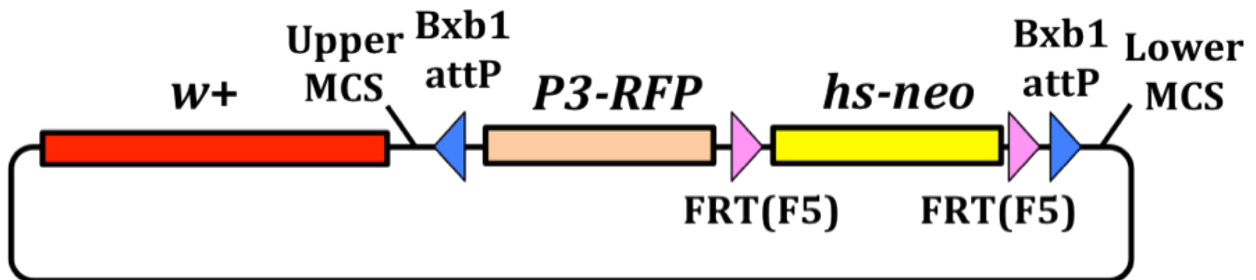


pRVV647

Resistance: Amp
Backbone: pBluescript SK+

Description

Donor vector for creation of Bxb1 attP-flanked alleles in *D. melanogaster* by e.g. CRISPR/Cas9 technology. *hs-neo* and *P3-RFP* (*3xPax6-RFP*) are positive selection markers while the *white* (*w+*) gene can be used as counter-selection marker in cases of plasmid integration events. The *hs-neo* cassette can be removed by FLP recombination using the unidirectional FRT(F5) sites.



Coordinates of important elements:

665-4802 *mini-white* gene

4807-4860 Upper MCS consisting of Sbf I, Avr II, Stu I, and Bgl II restriction enzyme sites

4861-4908 Inverted Bxb1 attP site

4917-6680 *P3-RFP* cassette

6687-6720 FRT(F5)

6721-8006 *hs-neo* cassette

8007-8040 FRT(F5)

8047-8094 Bxb1 attP site

8095-8985 Lower MCS consisting of Asc I, Nhe I, Nde I, Kpn I, Xba I, and Spe I restriction enzyme sites (SV40 3'UTR and some other sequences are present between Nde I and Spe I)