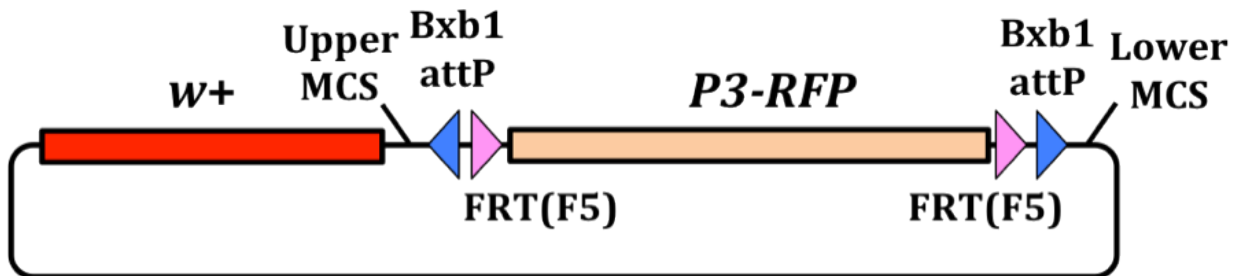


pRVV653

Resistance: Amp
Backbone: pBluescript SK+

Description

Donor vector for creation of Bxb1 attP-flanked alleles in *D. melanogaster* by e.g. CRISPR/Cas9 technology. *P3-RFP* is the positive selection marker while the *white (w+)* gene can be used as counter-selection in cases of plasmid integration events. The *P3-RFP* cassette can be removed by FLP recombination using the unidirectional FRT(F5) sites, resulting in a cleaner deletion allele.



Coordinates of important elements:

665-4802 *mini-white* gene

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

4861-4908 Inverted Bxb1 attP site

4917-4950 FRT(F5)

4951-6714 *P3-RFP* cassette

6715-6748 FRT(F5)

6755-6802 Bxb1 attP site

6803-7693 Lower MCS consisting of Asc I, Nhe I, Nde I, Xho, 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)