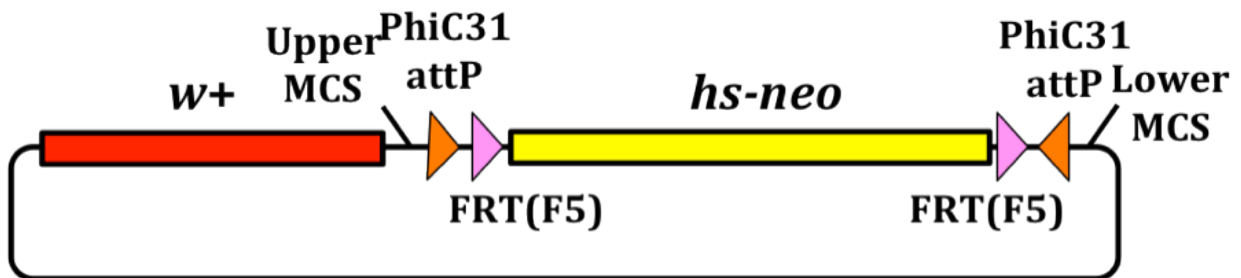


pRVV584

Resistance: Amp
Backbone: pBluescript SK+

Description

Donor vector for creation of PhiC31 attP-flanked alleles in *D. melanogaster* by e.g. CRISPR/Cas9 technology. *hs-neo* is the positive selection marker while the *white* (*w+*) gene can be used as counter-selection in cases of plasmid integration events. The *hs-neo* 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 Swa I, Sbf I, Hind III, Avr II, Stu I, Bgl II and Not I restriction enzyme sites

4861-4899 PhiC31 attP site

4914-4947 FRT(F5)

4948-6233 *hs-neo* cassette

6234-6267 FRT(F5)

6280-6318 Inverted attP site

6319-7209 Lower MCS consisting of Asc I, Nhe I, Nde I, Kpn I, Xba I, Hpa I, Bam HI, and Spe I restriction enzyme sites (SV40 3'UTR and some other sequences are present between Nde I and Bam HI)