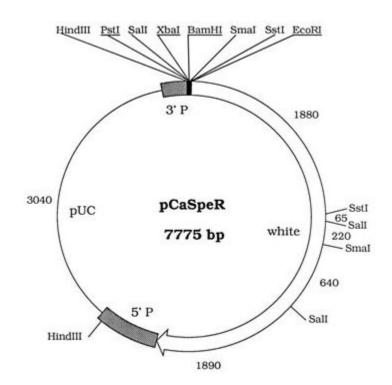
The orientation of a transposon insertion is reported with respect to the transposon's inherent asymmetry, like the P-element's distinct 5' and 3' ends.

How that inherent transposon asymmetry relates to other features of a construct, like FRT or Gal4 binding sites, depends on how a given construct is made.

This information can be tracked down in FlyBase. Here's how...



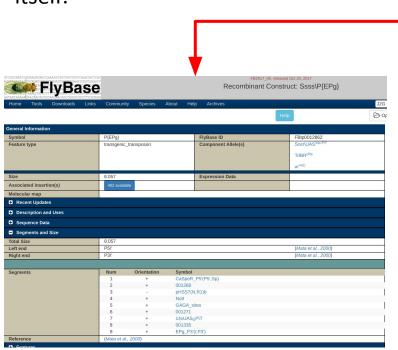
## I want to drive ectopic cbs expression:

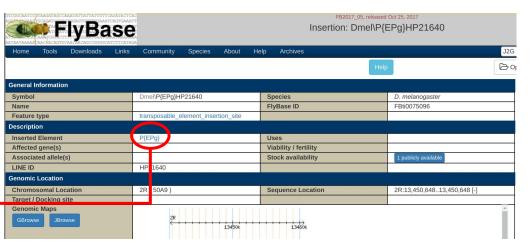


There are 2 EP/EP-like insertions near the *cbs* 5'end. The arrow indicates the orientation of the transposon (5' > 3'). The P{EPg}HP21640 insertion (highlighted) has a "minus" orientation; the P{EP}cbs[G2391] has a "plus" orientation.

Next step - click on an insertion glyph to get information about the related construct.

Clicking on the glyph for HP21640 takes you to the transposon insertion report. From there, look for the "Inserted element" section, and click to get to a report about the construct itself.

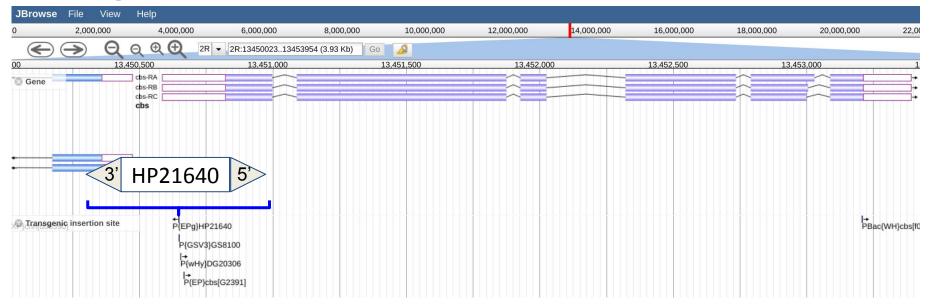




The "Segments & Size" section of the construct report describes what's in the EP element, relative to the P5' and P3' ends.
e.g., The GAGA and UAS sites are nested just inside of the P3'.

See references listed for more info.

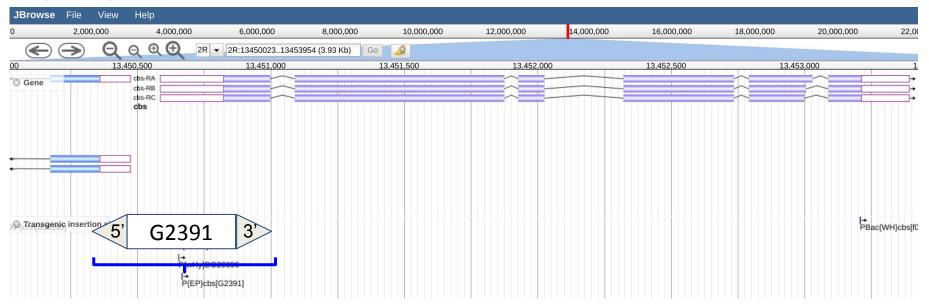
## P{EPg}HP21640:



From the info about the "EPg" construct, I would infer that transcription of this HP21640

insertion proceeds through the P3' ends, away from the "cbs" gene. Not what I want.

## P{EP}G2391:



There's another nearby EP element, P{EP}G2391, in which the 5'>3' direction of the transposon is oriented along the "plus" strand. Info about the "EP" construct indicates that the GAGA and UAS sites are nested just within P3' end. I would infer that transcription proceeds through the P3' end, along the "plus" genomic strand. This is the insertion that I want.