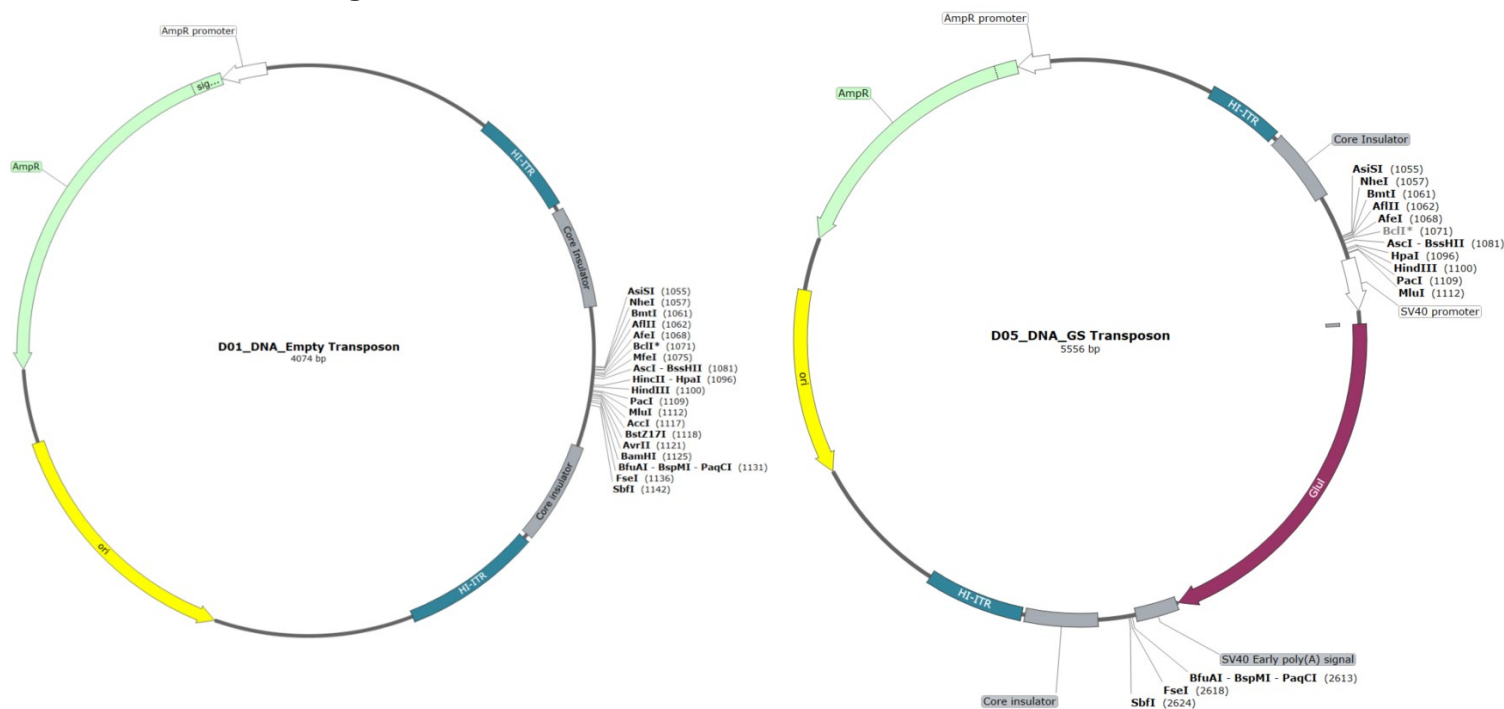


General Cloning Guide



Utilizing Demeetra's transposase/transposon system for stable integration of a GOI, Demeetra recommends that the user clones in their GOI with the Multiple Cloning Sites (MCSs) shown above. Although there may be additional restriction sites throughout the transposon, these sites are optimal for consistent success with Demeetra's transposase technologies.

Tips:

- 1) Allow a spacer region of around 100bp from the 5' and 3' core insulators in relation to the users GOI
- 2) Avoid removing or interrupting the core transposon elements (i.e. ITRs and core insulators)
- 3) Any element cloned outside of the ITRs (in the backbone) of the transposon, will not be integrated into the genome
- 4) PCR amplification from ITR to ITR will not work as these core elements create a hairpin loop phenomenon during the amplification process resulting in a 600-750bp PCR product.

The transposons shown above are example vectors and the tips apply to all transposons supplied by Demeetra.