**DNA restriction digest**

1. Quantitate DNA extracted from the miniprep.

2. In a new 1.5 ml tube, add the volume of DNA required to achieve 500 ng plus ddH2O to achieve 8 μl total.

3. Add 1 μl of 10x restriction enzyme reaction buffer to that.

4. Add 1 μl of restriction enzyme and incubate for 1 h (or overnight depending upon the enzyme) at 37**°**C