Guidelines For Use of Robertson Lab Recombinant Taq Polymerase

- Taq is stored in small concentrated aliquots in Box O11 in the equipment room -140.
- This enzyme appears to be more sensitive to long term storage at -20 than commercially available enzymes. Care should therefore be taken to not dilute more that you plan on using within the next week or so.
- 1 ul of a 1:5 dilution appears to be a suitable amount for most 50 ul reactions.
- Dilute in Taq Storage Buffer:
  50 mM Tris HCl pH 7.9
  50 mM KCl
  .1 mM EDTA
  1 mM DTT
  50% Glycerol
  1mg/ml BSA
- Several aliquots of this buffer have been stored in the same box (O11) as the enzyme. Please replenish as needed.
- Attached is the protocol for growth and isolation of the recombinant Taq when this batch is exhausted.

10x PCR buffer:

.5M HEPES
.5M KCl
pH 7.9 - sterilize by autoclave