

# Cloning of the GFP open reading frame in the cloning vector pUC19

Your task is to plan the cloning of the GFP open reading frame in to the *E. coli* cloning vector pUC19.

The strategy should involve designing PCR primers for the GFP gene and adding restriction sites to the PCR primers which will be used to clone the GFP gene in pUC19.

Use the following sequence sources: GFP Genbank accession number: L29345, pUC19 Genbank accession number: L09137

The result should be a text file with:

1. The forward primer in FASTA format.
2. The reverse primer in FASTA format.
3. The sequence of the PCR product in FASTA format with the size (bp) in the header.
4. The sequence of the recombinant vector in FASTA format with the size (bp) in the header.

