

334 MBIO Lab 5 assignment (Primer designing)

- Lab 5 -

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- Internalin A (InIA) is a key virulence factor in *Listeria monocytogenes*, enabling bacterial invasion of host cells by specifically binding to E-cadherin, a crucial cell adhesion molecule. This interaction facilitates bacterial entry into intestinal epithelial cells, playing a significant role in *Listeria* pathogenesis and foodborne infections.
- You aim to study a part of the protein that is relevant to your study by performing <u>PCR.</u>
- Follow the guidelines explained in the lab, and knowing that:
- 1. The **PDB code** for **InIA** is **106V**.
- 2. Use *E. coli K12* as the codon table parameter for EMBOSS Backtranseq.
- 3. Design primers using **SnapGene** targeting the sequence between **BstXI and PsiI** for PCR.
- 4. Perform a virtual PCR, then analyse the predicted product size using agarose gel simulation.



If you need a refresher on using SnapGene for this assignment, watch

the tutorial linked below.

Click Here

