

Thursday 7/30/09

Run gel of digested lambda and T4 killer genes

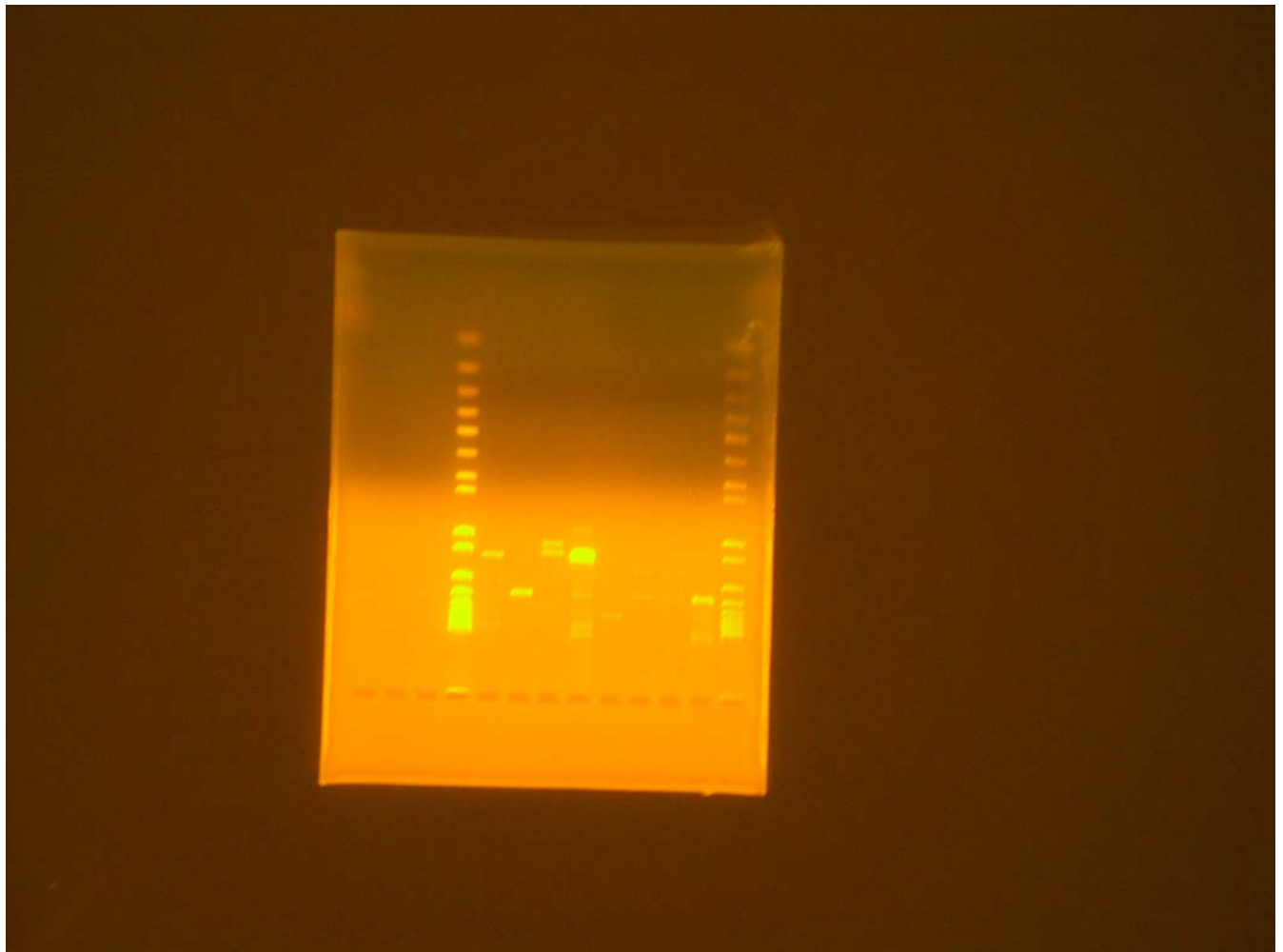
- Nick ran gel of lambda and T4 digest with EcoRI/PstI, EcoRI/XhoI and XhoI only according to the protocol on 7/27/09

Run gel of colony PCR products of the Pu promoter for Probhjyot

- A gel of the 8 replicates of the colony PCR of the Pu promoter were ran according to the protocol on 7/27/09

Results

Gel of Lambda and T4 killer genes digested with EcoRI/PstI, EcoRI/XhoI and XhoI only



Expected lengths without part on plasmid:

EcoRI/PstI: 1173 bp and 2171 bp

EcoRI/XhoI: 1133 bp and 2211 bp

XhoI: 3344 bp

Expected lengths w/ part directly following EcoRI/BglII prefix

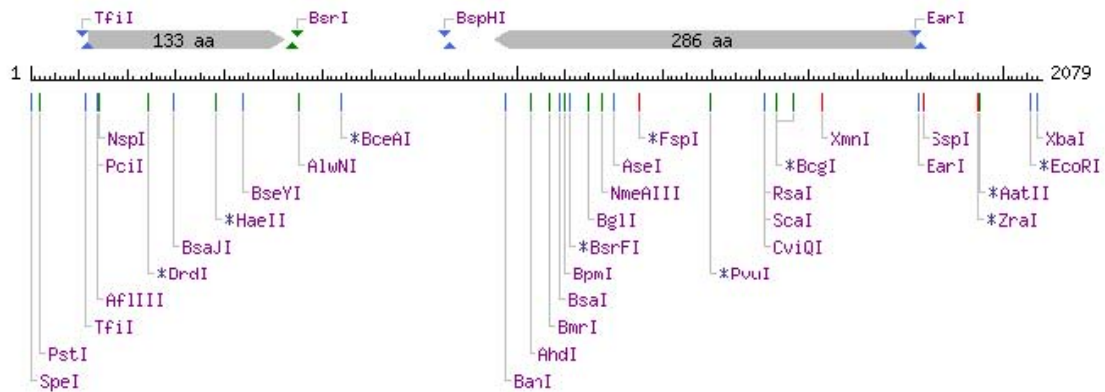
EcoRI/PstI: 1173 bp and 3670 bp

EcoRI/XhoI: 1133 bp and 3710 bp

XhoI: 4843 bp

From NEB cutter2:

Plasmid (SB1A2) backbone for T4 Lysis Device:



Location of sites

EcoRI: 2058 bp

PstI: 16 bp

XhoI: None

From this gel we confirmed that the lambda killer gene has a longer sequence than stated in the registry. The T4 killer gene looks good, however having EcoRI and PstI restriction sites may be hard to work with, need to digest and find other restriction sites (BamHI, SpeI, XbaI)

Gel of Pu primer

A gel was run of Probyjot's 8 colony PCR reactions for the Pu primer. However, no DNA appeared on the gel.