**Cover letter for OldBen F1 Phage (University of Mary cohort 9)**

**Big gaps (over 100 bp):**

*Genes 10-11 = check start site for gene 11.\**

Genes 11-12 = seen in Phamerator as a big gap (compared to Daenerys F1 Phage)

Genes 25-26 = seen in Phamerator as a big gap (compared to Daenerys s F1 Phage)

*Genes 40-41 = seen in Phamerator as a big gap (compared to Daenerys F1 Phage), also tried adding a gene here but saw no blast function. There is some coding potential seen but not consistent between the Genemark data.\**

Genes 42-43 = seen in Phamerator as a big gap (compared to Daenerys F1 Phage)

Genes 43-44 = seen in Phamerator as a big gap (compared to Daenerys F1 Phage)

*Genes 62-63 = there is coding potential in first 2 of the forward frames. Not sure how to choose which one.*\*

*Genes 81-82 = check start site for gene 82.* \* Gap also seen in Phamerator (compared to Daenerys F1 Phage)

**Other:**

*Gene 19: ORF should be in the second frame but is in the third reading frame. I don’t think there is a frame shift here but in DNA Master I don’t know how to move the ORF to the second reading fram*e.\*

\*Please check these gene areas