



# ILLINOIS WESLEYAN UNIVERSITY

April 14, 2015

To Whom it May Concern:

The students of the SEA PHAGES Lab at Illinois Wesleyan University have completed annotation of the phage genome, Eidsmoe. This phage, categorized in the A9 subcluster, contains one tRNA for glutamate, and has 52,946 base pairs in the genome. We annotated a total of 97 genes, including the tRNA and a frameshift. Since A9 phages are fairly uncommon in the world, Eidsmoe was compared to only two previously annotated A9 genomes and deviated very little from those annotations. This team did not encounter any problems within the genome, but there are a few large gaps in the genome. Between genes 34 and 35 there is a gap of 121 base pairs, but GeneMark Smeg indicates that there is no coding potential between these two genes. Between genes 66 and 67 there is a gap of 167 base pairs, which is significant, but again GeneMark Smeg indicates that there is no coding potential.

Best Regards,

Illinois Wesleyan University SEA PHAGES Lab Students 2014-2015

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