



# ILLINOIS WESLEYAN UNIVERSITY

To Whom It May Concern,

Please accept the annotation of the A4 phage Morrow, isolated from the Morrow Plots at the University of Illinois at Urbana-Champaign. There are a few spots in Morrow's genome that we feel may require additional attention from the quality control team. They include the following:

- Gene 6 – there are two very possible start sites for this start site. We chose the longer ORF as it was conserved another genome.
- Genes 14, 38, and 87 – The closest BLAST results in DNA Master are not q1:s1, however on phagesdb, the products are q1:s1 with the closest match.
- Between Genes 33 and 34 – Originally a gene was called with the start site 26461, and minimal coding potential can be seen, but the product did not match any hits in BLASTp.
- Gene 61 – BellusTerra has function esterase in phamerator, but many other genomes list hydrolase as the function.
- Genes 71 and 72 – These may combine to form one gene, as seen in most other genomes, including BellusTerra gp70. All matches for gene 71 are q1:s67 or q1:s71.

Sincerely,

The Morrow Team

Aida Cheung, Meghan Linder, Jordan Miller, Tiffany Remijas, Audrey Smith,  
Jadeah Spindler, Ruchen Tian, and Dr. Richard Alvey