Cover sheet for DillTech15; Montana Tech

The 57,797 bp genome of mycobacteriophage DillTech 15 was annotated by Dillon Delaney and Jessica Andriolo (Gregory) during the spring semester of 2016. One hundred eleven protein coding genes were called during annotation. Below are some notable changes from the auto-annotation.

* Originally there were 113 protein coding genes that were predicted.
* At gene 12, a programmed Frame Shift +1 was called.
* High coding potential was observed for the originally called gene 12 and at the end of originally called gene 13. Combined with the knowledge of a slippery sequence, the fusion protein was called. G-T Fusion; Programmed Frame Shift +1.
* Original auto-annotated gene call 43 was deleted.
* Original auto-annotated gene call 45 was called at a shorter (more 3’) start.
* Original auto-annotated gene call 50 was called at a longer (more 5’) start.
* Original auto-annotated gene call 59 was called at a longer (more 5’) start.
* Original auto-annotated gene call 65 was called at a longer (more 5’) start.
* “Insert 78” was a gene that was called between original auto-annotated gene calls 78 and 79.
* Original auto-annotated gene call 82 was deleted.
* Original auto-annotated gene call 95 was called at a longer (more 5’) start.
* “Gene after” was a gene that was called between original auto-annotated gene calls 97 and 98.
* Original auto-annotated gene call 99 was called at a longer (more 5’) start.
* Original auto-annotated gene call 108 was called at a longer (more 5’) start.

Respectfully Submitted,

Dillon Delaney