



December 12, 2013

Dear Annotation Quality Control Team,

Please find attached the Hope College Fall 2012/Spring 2013 Mycobacteriophage Inventum annotation file and author list.

We believe the annotations are reasonably good throughout (nothing stands out). We did consciously delete a few ORFs from the original autoannotation even though some may be found in other submitted phage genomes:

SSC: 28154-28035 (REV). CP: no. SD: no (273). SCS: GeneMark not called. Gap: 428. Blast: none. LO: no (168). F: DELETED. FS: 243Genomes121312. Notes: Only Glimmer called; found no coding potential; not highest SD score; no BLAST matches; did T-BLASTX, but not good in calls.

SSC: 30888-30974 (FWD). CP: N. SD: 441, yes. SCS: Matches GeneMark. Glimmer did not call. Gap: 2. Blast: gp37 Drago 1:1. LO: Yes. F: DELETED. FS: . Notes: This does not seem to be a gene and should be deleted.

SSC: 31324-31485 (FWD). CP: N. SD: 546, no. SCS: all. Gap: 47. Blast: n/a. LO: Yes. F: DELETED. FS: . Notes: Despite Glimmer and GeneMark calling this gene, the absence of coding potential and BLAST results seem to show that this gene does not exist. It seems that all the other genomes seem to have had stop codons in the middle of this ORF. I am still calling this, but with great reservations..

Please let me know if you have any questions or concerns.

Sincerely,

A handwritten signature in black ink that reads "Aaron A. Best". The signature is written in a cursive, flowing style.

Aaron A. Best, Ph.D.