Annotation Notes: Klein

* Gp9 gives a good hit as the small terminase subunit gene and gp10 gives a good hit as the large terminase subunit gene. However, gp2 also gives a good hit as a large terminase subunit gene. Can a phage genome have more than one large terminase subunit gene?
* Gp14 is the major capsid subunit and does NOT appear to be one of the J cluster capsid genes that contain an intron.
* The Klein genome appears to contain two potential tRNA genes that are not clustered with one another. The first one (gp110) was detected by tRNA scan but not by web-based Aragorn. The second tRNA gene (gp194) was detected by both web-based Aragorn and tRNA scan. Both tRNA genes were trimmed according to web-based Aragorn.
* There does not appear to be any tmRNA genes encoded within the Klein genome.
* Several genes not detected by Glimmer and GeneMark were added since they included coding potential and filled areas of the genome that was devoid of genes.
* There appears to be a wrap-around gene that was annotated as such.
* There also appears to be two lysin B genes (gp50 and gp52)
* Coding potential was made using the GeneMarkS Output profile