

1	2	3	4	5	6

Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly with annotated starts, the track will be further scaled to only show that region of the ORF with annotated starts. This action will be indicated by adding "Zoomed" to the title. For starts, yellow indicates the location of called starts comprised solely of Glimmer/GeneMark auto-annotations, green indicates the location of called starts with at least 1 manual gene annotation.

## Pham 194360 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194360 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Beelzebub\_21, FeliMaine\_17, Tesla\_17, Huphlepuuff\_19, Blackbeetle\_18, Clarkson\_19, Gattaca\_17, Pringar\_17, Raela\_18, Lilbit\_19, LittleLaf\_18, VasuNzinga\_16, Corazon\_17, JoieB\_18, Marvin\_17, MosMoris\_17, RedRaider77\_18, Caprice\_15, Poise\_18

### ***Summary of Final Annotations (See graph section above for start numbers):***

The start number called the most often in the published annotations is 1, it was called in 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub\_21, Blackbeetle\_18, Caprice\_15, Clarkson\_19, Corazon\_17, FeliMaine\_17, Gattaca\_17, Huphlepuuff\_19, JoieB\_18, Lilbit\_19, LittleLaf\_18, Marvin\_17, MosMoris\_17, Poise\_18, Pringar\_17, Raela\_18, RedRaider77\_18, Tesla\_17, VasuNzinga\_16,

Genes that have the "Most Annotated" start but do not call it:

- 

Genes that do not have the "Most Annotated" start:

- 

### **Summary by start number:**

Start 1:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub\_21 (S), Blackbeetle\_18 (S), Caprice\_15 (S), Clarkson\_19 (S), Corazon\_17 (S), FeliMaine\_17 (S), Gattaca\_17 (S), Huphlepuuff\_19 (S), JoieB\_18 (S), Lilbit\_19 (S), LittleLaf\_18 (S), Marvin\_17 (S), MosMoris\_17 (S), Poise\_18 (S), Pringar\_17 (S), Raela\_18 (S), RedRaider77\_18 (S), Tesla\_17 (S), VasuNzinga\_16 (S),

## Summary by clusters:

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

•Start number 1 was manually annotated 16 times for cluster S.

### **Gene Information:**

Gene: Beelzebub\_21 Start: 5911, Stop: 6105, Start Num: 1

Candidate Starts for Beelzebub\_21:

(Start: 1 @5911 has 16 MA's), (2, 5956), (3, 5992), (4, 6025), (5, 6043), (6, 6052),

Gene: Blackbeetle\_18 Start: 5244, Stop: 5438, Start Num: 1

Candidate Starts for Blackbeetle\_18:

(Start: 1 @5244 has 16 MA's), (2, 5289), (3, 5325), (4, 5358), (5, 5376), (6, 5385),

Gene: Caprice\_15 Start: 4560, Stop: 4754, Start Num: 1

Candidate Starts for Caprice\_15:

(Start: 1 @4560 has 16 MA's), (2, 4605), (3, 4641), (4, 4674), (5, 4692), (6, 4701),

Gene: Clarkson\_19 Start: 5687, Stop: 5881, Start Num: 1

Candidate Starts for Clarkson\_19:

(Start: 1 @5687 has 16 MA's), (2, 5732), (3, 5768), (4, 5801), (5, 5819), (6, 5828),

Gene: Corazon\_17 Start: 5640, Stop: 5834, Start Num: 1

Candidate Starts for Corazon\_17:

(Start: 1 @5640 has 16 MA's), (2, 5685), (3, 5721), (4, 5754), (5, 5772), (6, 5781),

Gene: FeliMaine\_17 Start: 5688, Stop: 5882, Start Num: 1

Candidate Starts for FeliMaine\_17:

(Start: 1 @5688 has 16 MA's), (2, 5733), (3, 5769), (4, 5802), (5, 5820), (6, 5829),

Gene: Gattaca\_17 Start: 5133, Stop: 5327, Start Num: 1

Candidate Starts for Gattaca\_17:

(Start: 1 @5133 has 16 MA's), (2, 5178), (3, 5214), (4, 5247), (5, 5265), (6, 5274),

Gene: Huphlebuff\_19 Start: 5417, Stop: 5611, Start Num: 1

Candidate Starts for Huphlebuff\_19:

(Start: 1 @5417 has 16 MA's), (2, 5462), (3, 5498), (4, 5531), (5, 5549), (6, 5558),

Gene: JoieB\_18 Start: 5636, Stop: 5830, Start Num: 1

Candidate Starts for JoieB\_18:

(Start: 1 @5636 has 16 MA's), (2, 5681), (3, 5717), (4, 5750), (5, 5768), (6, 5777),

Gene: Lilbit\_19 Start: 5688, Stop: 5882, Start Num: 1

Candidate Starts for Lilbit\_19:

(Start: 1 @5688 has 16 MA's), (2, 5733), (3, 5769), (4, 5802), (5, 5820), (6, 5829),

Gene: LittleLaf\_18 Start: 5417, Stop: 5611, Start Num: 1

Candidate Starts for LittleLaf\_18:

(Start: 1 @5417 has 16 MA's), (2, 5462), (3, 5498), (4, 5531), (5, 5549), (6, 5558),

Gene: Marvin\_17 Start: 5612, Stop: 5806, Start Num: 1

Candidate Starts for Marvin\_17:

(Start: 1 @5612 has 16 MA's), (2, 5657), (3, 5693), (4, 5726), (5, 5744), (6, 5753),

Gene: MosMoris\_17 Start: 5133, Stop: 5327, Start Num: 1

Candidate Starts for MosMoris\_17:

(Start: 1 @5133 has 16 MA's), (2, 5178), (3, 5214), (4, 5247), (5, 5265), (6, 5274),

Gene: Poise\_18 Start: 5244, Stop: 5438, Start Num: 1

Candidate Starts for Poise\_18:

(Start: 1 @5244 has 16 MA's), (2, 5289), (3, 5325), (4, 5358), (5, 5376), (6, 5385),

Gene: Pringar\_17 Start: 5242, Stop: 5436, Start Num: 1

Candidate Starts for Pringar\_17:

(Start: 1 @5242 has 16 MA's), (2, 5287), (3, 5323), (4, 5356), (5, 5374), (6, 5383),

Gene: Raela\_18 Start: 5799, Stop: 5993, Start Num: 1

Candidate Starts for Raela\_18:

(Start: 1 @5799 has 16 MA's), (2, 5844), (3, 5880), (4, 5913), (5, 5931), (6, 5940),

Gene: RedRaider77\_18 Start: 5404, Stop: 5598, Start Num: 1

Candidate Starts for RedRaider77\_18:

(Start: 1 @5404 has 16 MA's), (2, 5449), (3, 5485), (4, 5518), (5, 5536), (6, 5545),

Gene: Tesla\_17 Start: 5235, Stop: 5429, Start Num: 1

Candidate Starts for Tesla\_17:

(Start: 1 @5235 has 16 MA's), (2, 5280), (3, 5316), (4, 5349), (5, 5367), (6, 5376),

Gene: VasuNzinga\_16 Start: 4819, Stop: 5013, Start Num: 1

Candidate Starts for VasuNzinga\_16:

(Start: 1 @4819 has 16 MA's), (2, 4864), (3, 4900), (4, 4933), (5, 4951), (6, 4960),