



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 312036 Report

This analysis was run 06/27/26 on database version 652.

Pham number 312036 has 20 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Clarkson\_39, Poise\_38, Huphlebuff\_40, Caprice\_35, FeliMaine\_40, VasuNzinga\_38, Gattaca\_37, JoieB\_39, Raela\_38, Tesla\_37, Beelzebub\_42, Marvin\_36, Corazon\_36, LittleLaf\_38, MosMoris\_36, RedRaider77\_38, GoongGoong\_37, Lilbit\_37, Blackbeetle\_38
- Track 2 : Pringar\_38

### ***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 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub\_42, Blackbeetle\_38, Caprice\_35, Clarkson\_39, Corazon\_36, FeliMaine\_40, Gattaca\_37, GoongGoong\_37, Huphlebuff\_40, JoieB\_39, Lilbit\_37, LittleLaf\_38, Marvin\_36, MosMoris\_36, Poise\_38, Pringar\_38, Raela\_38, RedRaider77\_38, Tesla\_37, VasuNzinga\_38,

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 20 of 20 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 19 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beelzebub\_42 (S), Blackbeetle\_38 (S), Caprice\_35 (S), Clarkson\_39 (S), Corazon\_36 (S), FeliMaine\_40 (S), Gattaca\_37 (S), GoongGoong\_37 (S), Huphlebuff\_40 (S), JoieB\_39 (S), Lilbit\_37 (S), LittleLaf\_38 (S), Marvin\_36 (S), MosMoris\_36 (S), Poise\_38 (S), Pringar\_38 (S), Raela\_38 (S), RedRaider77\_38 (S), Tesla\_37 (S), VasuNzinga\_38 (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 19 times for cluster S.

### **Gene Information:**

Gene: Beelzebub\_42 Start: 15494, Stop: 16126, Start Num: 1

Candidate Starts for Beelzebub\_42:

(Start: 1 @15494 has 19 MA's), (2, 15599), (3, 15794), (4, 15863), (5, 15881),

Gene: Blackbeetle\_38 Start: 14513, Stop: 15145, Start Num: 1

Candidate Starts for Blackbeetle\_38:

(Start: 1 @14513 has 19 MA's), (2, 14618), (3, 14813), (4, 14882), (5, 14900),

Gene: Caprice\_35 Start: 14583, Stop: 15215, Start Num: 1

Candidate Starts for Caprice\_35:

(Start: 1 @14583 has 19 MA's), (2, 14688), (3, 14883), (4, 14952), (5, 14970),

Gene: Clarkson\_39 Start: 15195, Stop: 15827, Start Num: 1

Candidate Starts for Clarkson\_39:

(Start: 1 @15195 has 19 MA's), (2, 15300), (3, 15495), (4, 15564), (5, 15582),

Gene: Corazon\_36 Start: 15148, Stop: 15780, Start Num: 1

Candidate Starts for Corazon\_36:

(Start: 1 @15148 has 19 MA's), (2, 15253), (3, 15448), (4, 15517), (5, 15535),

Gene: FeliMaine\_40 Start: 15196, Stop: 15828, Start Num: 1

Candidate Starts for FeliMaine\_40:

(Start: 1 @15196 has 19 MA's), (2, 15301), (3, 15496), (4, 15565), (5, 15583),

Gene: Gattaca\_37 Start: 14375, Stop: 15007, Start Num: 1

Candidate Starts for Gattaca\_37:

(Start: 1 @14375 has 19 MA's), (2, 14480), (3, 14675), (4, 14744), (5, 14762),

Gene: GoongGoong\_37 Start: 14415, Stop: 15047, Start Num: 1

Candidate Starts for GoongGoong\_37:

(Start: 1 @14415 has 19 MA's), (2, 14520), (3, 14715), (4, 14784), (5, 14802),

Gene: Huphlepuuff\_40 Start: 15000, Stop: 15632, Start Num: 1

Candidate Starts for Huphlepuuff\_40:

(Start: 1 @15000 has 19 MA's), (2, 15105), (3, 15300), (4, 15369), (5, 15387),

Gene: JoieB\_39 Start: 15219, Stop: 15851, Start Num: 1

Candidate Starts for JoieB\_39:

(Start: 1 @15219 has 19 MA's), (2, 15324), (3, 15519), (4, 15588), (5, 15606),

Gene: Lilbit\_37 Start: 15196, Stop: 15828, Start Num: 1

Candidate Starts for Lilbit\_37:

(Start: 1 @15196 has 19 MA's), (2, 15301), (3, 15496), (4, 15565), (5, 15583),

Gene: LittleLaf\_38 Start: 14925, Stop: 15557, Start Num: 1

Candidate Starts for LittleLaf\_38:

(Start: 1 @14925 has 19 MA's), (2, 15030), (3, 15225), (4, 15294), (5, 15312),

Gene: Marvin\_36 Start: 15195, Stop: 15827, Start Num: 1

Candidate Starts for Marvin\_36:

(Start: 1 @15195 has 19 MA's), (2, 15300), (3, 15495), (4, 15564), (5, 15582),

Gene: MosMoris\_36 Start: 14375, Stop: 15007, Start Num: 1

Candidate Starts for MosMoris\_36:

(Start: 1 @14375 has 19 MA's), (2, 14480), (3, 14675), (4, 14744), (5, 14762),

Gene: Poise\_38 Start: 14513, Stop: 15145, Start Num: 1

Candidate Starts for Poise\_38:

(Start: 1 @14513 has 19 MA's), (2, 14618), (3, 14813), (4, 14882), (5, 14900),

Gene: Pringar\_38 Start: 14825, Stop: 15457, Start Num: 1

Candidate Starts for Pringar\_38:

(Start: 1 @14825 has 19 MA's), (2, 14930), (3, 15125), (4, 15194), (5, 15212), (6, 15314),

Gene: Raela\_38 Start: 15068, Stop: 15700, Start Num: 1

Candidate Starts for Raela\_38:

(Start: 1 @15068 has 19 MA's), (2, 15173), (3, 15368), (4, 15437), (5, 15455),

Gene: RedRaider77\_38 Start: 14969, Stop: 15601, Start Num: 1

Candidate Starts for RedRaider77\_38:

(Start: 1 @14969 has 19 MA's), (2, 15074), (3, 15269), (4, 15338), (5, 15356),

Gene: Tesla\_37 Start: 14818, Stop: 15450, Start Num: 1

Candidate Starts for Tesla\_37:

(Start: 1 @14818 has 19 MA's), (2, 14923), (3, 15118), (4, 15187), (5, 15205),

Gene: VasuNzinga\_38 Start: 14402, Stop: 15034, Start Num: 1

Candidate Starts for VasuNzinga\_38:

(Start: 1 @14402 has 19 MA's), (2, 14507), (3, 14702), (4, 14771), (5, 14789),