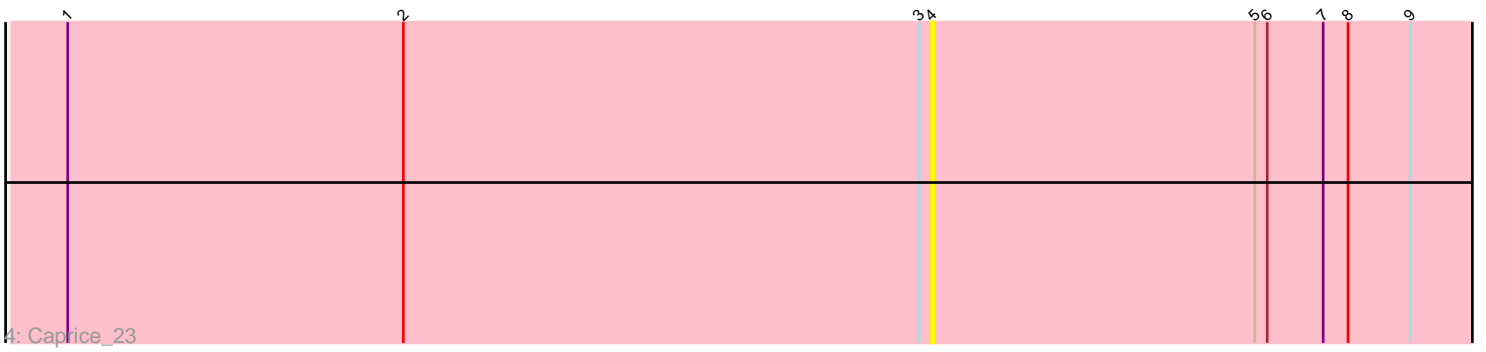
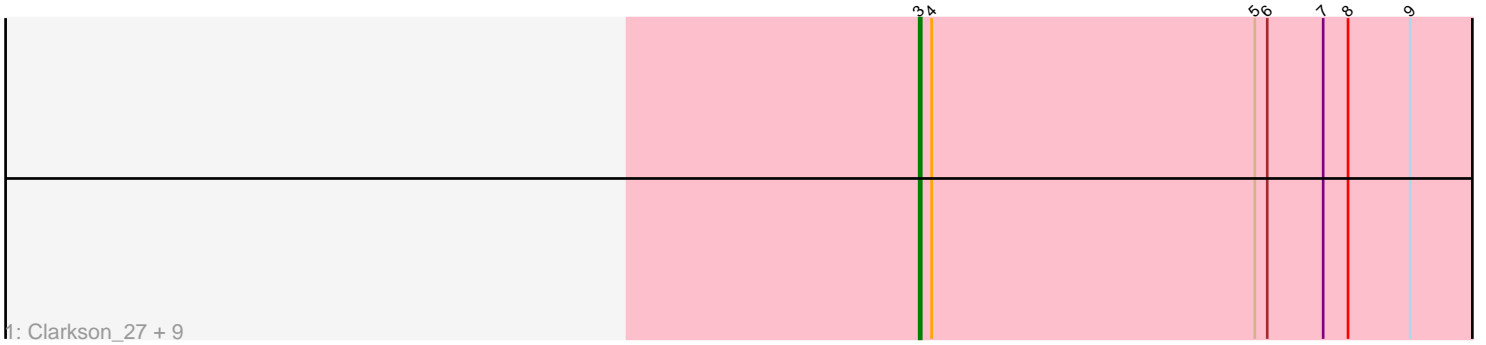


Pham 4151



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 4151 Report

This analysis was run 07/09/24 on database version 566.

Pham number 4151 has 19 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Clarkson\_27, Beelzebub\_30, JoieB\_27, LittleLaf\_26, Lilbit\_28, Marvin\_25, Pringar\_26, VasuNzinga\_26, FeliMaine\_26, Corazon\_25
- Track 2 : MosMoris\_25, Gattaca\_26, Poise\_27, RedRaider77\_27, Tesla\_26, Blackbeetle\_27, Raela\_27
- Track 3 : Huphlebuff\_28
- Track 4 : Caprice\_23

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

The start number called the most often in the published annotations is 3, it was called in 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beelzebub\_30, Blackbeetle\_27, Clarkson\_27, Corazon\_25, FeliMaine\_26, Gattaca\_26, Huphlebuff\_28, JoieB\_27, Lilbit\_28, LittleLaf\_26, Marvin\_25, MosMoris\_25, Poise\_27, Pringar\_26, Raela\_27, RedRaider77\_27, Tesla\_26, VasuNzinga\_26,

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

- Caprice\_23,

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

- 

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

Start 3:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Beelzebub\_30 (S), Blackbeetle\_27 (S), Clarkson\_27 (S), Corazon\_25 (S), FeliMaine\_26 (S), Gattaca\_26 (S), Huphlebuff\_28 (S), JoieB\_27 (S), Lilbit\_28 (S), LittleLaf\_26 (S), Marvin\_25 (S), MosMoris\_25 (S), Poise\_27 (S), Pringar\_26 (S), Raela\_27 (S), RedRaider77\_27 (S), Tesla\_26 (S),

VasuNzinga\_26 (S),

Start 4:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Caprice\_23 (S),

### Summary by clusters:

There is one cluster represented in this pham: S

Info for manual annotations of cluster S:

- Start number 3 was manually annotated 16 times for cluster S.

### Gene Information:

Gene: Beelzebub\_30 Start: 8064, Stop: 8345, Start Num: 3

Candidate Starts for Beelzebub\_30:

(Start: 3 @8064 has 16 MA's), (4, 8070), (5, 8226), (6, 8232), (7, 8259), (8, 8271), (9, 8301),

Gene: Blackbeetle\_27 Start: 7397, Stop: 7678, Start Num: 3

Candidate Starts for Blackbeetle\_27:

(1, 6986), (2, 7148), (Start: 3 @7397 has 16 MA's), (4, 7403), (5, 7559), (6, 7565), (7, 7592), (8, 7604), (9, 7634),

Gene: Caprice\_23 Start: 6634, Stop: 6909, Start Num: 4

Candidate Starts for Caprice\_23:

(1, 6217), (2, 6379), (Start: 3 @6628 has 16 MA's), (4, 6634), (5, 6790), (6, 6796), (7, 6823), (8, 6835), (9, 6865),

Gene: Clarkson\_27 Start: 7765, Stop: 8046, Start Num: 3

Candidate Starts for Clarkson\_27:

(Start: 3 @7765 has 16 MA's), (4, 7771), (5, 7927), (6, 7933), (7, 7960), (8, 7972), (9, 8002),

Gene: Corazon\_25 Start: 7718, Stop: 7999, Start Num: 3

Candidate Starts for Corazon\_25:

(Start: 3 @7718 has 16 MA's), (4, 7724), (5, 7880), (6, 7886), (7, 7913), (8, 7925), (9, 7955),

Gene: FeliMaine\_26 Start: 7766, Stop: 8047, Start Num: 3

Candidate Starts for FeliMaine\_26:

(Start: 3 @7766 has 16 MA's), (4, 7772), (5, 7928), (6, 7934), (7, 7961), (8, 7973), (9, 8003),

Gene: Gattaca\_26 Start: 7286, Stop: 7567, Start Num: 3

Candidate Starts for Gattaca\_26:

(1, 6875), (2, 7037), (Start: 3 @7286 has 16 MA's), (4, 7292), (5, 7448), (6, 7454), (7, 7481), (8, 7493), (9, 7523),

Gene: Huphlepuuff\_28 Start: 7570, Stop: 7851, Start Num: 3

Candidate Starts for Huphlepuuff\_28:

(1, 7159), (2, 7321), (Start: 3 @7570 has 16 MA's), (4, 7576), (5, 7732), (6, 7738), (7, 7765), (8, 7777), (9, 7807),

Gene: JoieB\_27 Start: 7789, Stop: 8070, Start Num: 3

Candidate Starts for JoieB\_27:

(Start: 3 @7789 has 16 MA's), (4, 7795), (5, 7951), (6, 7957), (7, 7984), (8, 7996), (9, 8026),

Gene: Lilbit\_28 Start: 7766, Stop: 8047, Start Num: 3

Candidate Starts for Lilbit\_28:

(Start: 3 @7766 has 16 MA's), (4, 7772), (5, 7928), (6, 7934), (7, 7961), (8, 7973), (9, 8003),

Gene: LittleLaf\_26 Start: 7495, Stop: 7776, Start Num: 3

Candidate Starts for LittleLaf\_26:

(Start: 3 @7495 has 16 MA's), (4, 7501), (5, 7657), (6, 7663), (7, 7690), (8, 7702), (9, 7732),

Gene: Marvin\_25 Start: 7765, Stop: 8046, Start Num: 3

Candidate Starts for Marvin\_25:

(Start: 3 @7765 has 16 MA's), (4, 7771), (5, 7927), (6, 7933), (7, 7960), (8, 7972), (9, 8002),

Gene: MosMoris\_25 Start: 7286, Stop: 7567, Start Num: 3

Candidate Starts for MosMoris\_25:

(1, 6875), (2, 7037), (Start: 3 @7286 has 16 MA's), (4, 7292), (5, 7448), (6, 7454), (7, 7481), (8, 7493), (9, 7523),

Gene: Poise\_27 Start: 7397, Stop: 7678, Start Num: 3

Candidate Starts for Poise\_27:

(1, 6986), (2, 7148), (Start: 3 @7397 has 16 MA's), (4, 7403), (5, 7559), (6, 7565), (7, 7592), (8, 7604), (9, 7634),

Gene: Pringar\_26 Start: 7395, Stop: 7676, Start Num: 3

Candidate Starts for Pringar\_26:

(Start: 3 @7395 has 16 MA's), (4, 7401), (5, 7557), (6, 7563), (7, 7590), (8, 7602), (9, 7632),

Gene: Raela\_27 Start: 7952, Stop: 8233, Start Num: 3

Candidate Starts for Raela\_27:

(1, 7541), (2, 7703), (Start: 3 @7952 has 16 MA's), (4, 7958), (5, 8114), (6, 8120), (7, 8147), (8, 8159), (9, 8189),

Gene: RedRaider77\_27 Start: 7536, Stop: 7817, Start Num: 3

Candidate Starts for RedRaider77\_27:

(1, 7125), (2, 7287), (Start: 3 @7536 has 16 MA's), (4, 7542), (5, 7698), (6, 7704), (7, 7731), (8, 7743), (9, 7773),

Gene: Tesla\_26 Start: 7388, Stop: 7669, Start Num: 3

Candidate Starts for Tesla\_26:

(1, 6977), (2, 7139), (Start: 3 @7388 has 16 MA's), (4, 7394), (5, 7550), (6, 7556), (7, 7583), (8, 7595), (9, 7625),

Gene: VasuNzinga\_26 Start: 6972, Stop: 7253, Start Num: 3

Candidate Starts for VasuNzinga\_26:

(Start: 3 @6972 has 16 MA's), (4, 6978), (5, 7134), (6, 7140), (7, 7167), (8, 7179), (9, 7209),