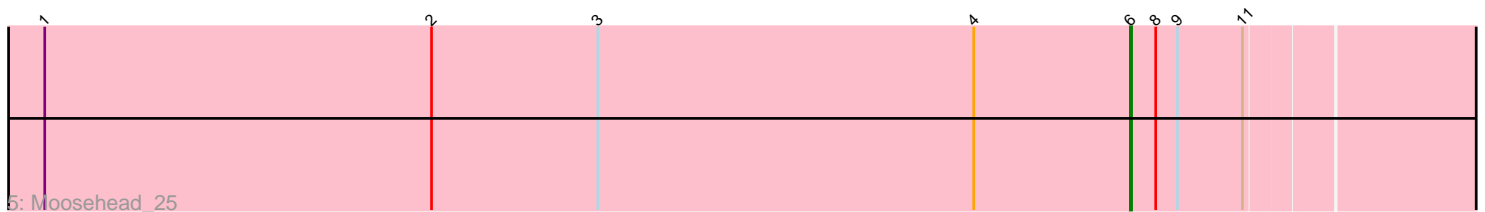
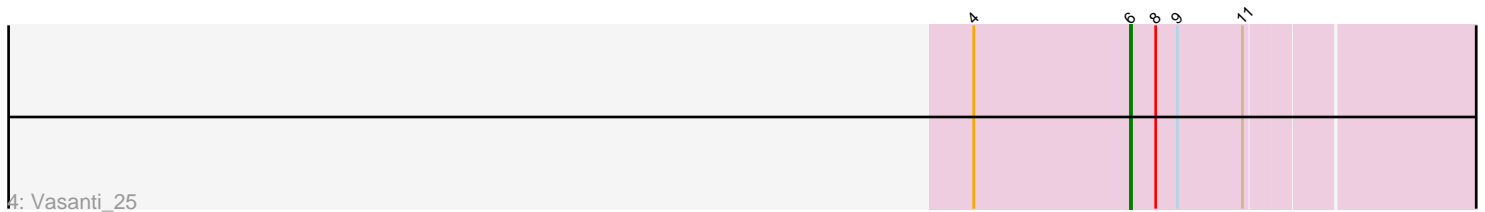
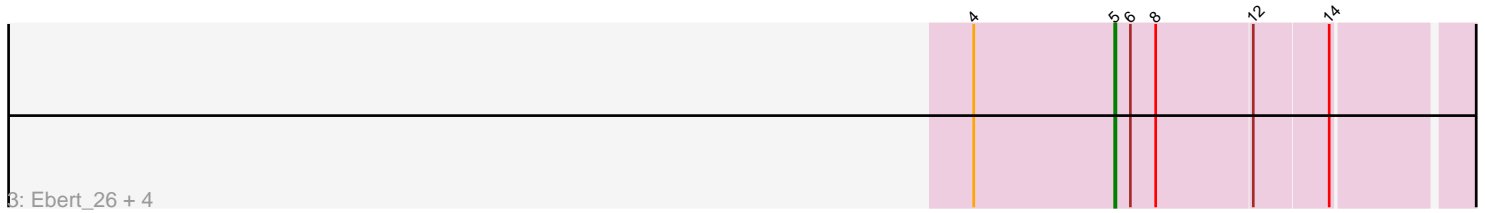
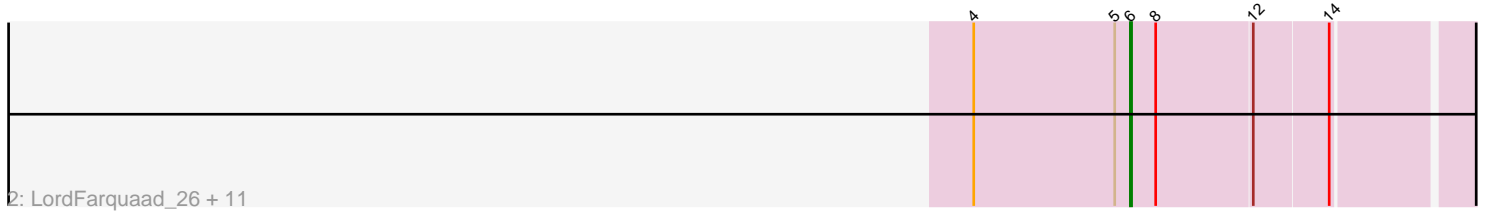
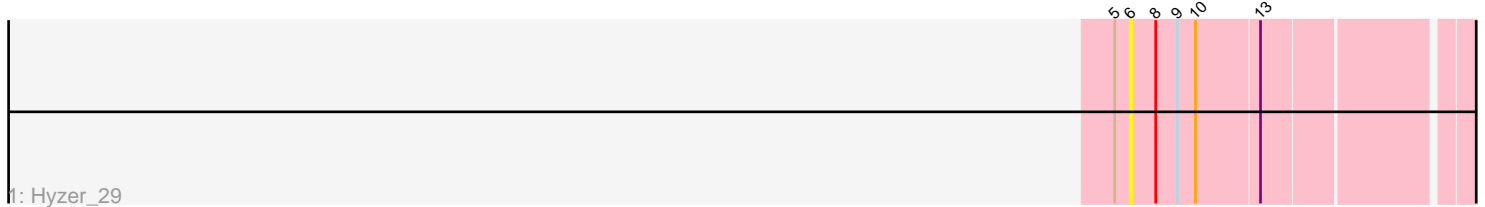


Pham 194317



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 194317 Report

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

Pham number 194317 has 22 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Hyzer\_29
- Track 2 : LordFarquaad\_26, Sahara\_25, Gizermo\_26, Bjanes7\_26, Sproutie\_26, Yeet412\_26, Mocha12\_26, Whiteclaw\_26, Savage\_26, Haley23\_26, Clap\_26, TuertoX\_26
- Track 3 : Ebert\_26, Attis\_26, SoilAssassin\_26, GemG\_26, Cynthia\_26
- Track 4 : Vasanti\_25
- Track 5 : Moosehead\_25
- Track 6 : Sidious\_28
- Track 7 : LittleFella\_28

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

The start number called the most often in the published annotations is 6, it was called in 16 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bjanes7\_26, Clap\_26, Gizermo\_26, Haley23\_26, Hyzer\_29, LittleFella\_28, LordFarquaad\_26, Mocha12\_26, Moosehead\_25, Sahara\_25, Savage\_26, Sidious\_28, Sproutie\_26, TuertoX\_26, Vasanti\_25, Whiteclaw\_26, Yeet412\_26,

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

- Attis\_26, Cynthia\_26, Ebert\_26, GemG\_26, SoilAssassin\_26,

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

- 

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

Start 5:

- Found in 18 of 22 ( 81.8% ) of genes in pham
- Manual Annotations of this start: 5 of 21
- Called 27.8% of time when present
- Phage (with cluster) where this start called: Attis\_26 (CZ2), Cynthia\_26 (CZ2), Ebert\_26 (CZ2), GemG\_26 (CZ2), SoilAssassin\_26 (CZ2),

Start 6:

- Found in 22 of 22 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 16 of 21
- Called 77.3% of time when present
- Phage (with cluster) where this start called: Bjaner7\_26 (CZ2), Clap\_26 (CZ2), Gizermo\_26 (CZ2), Haley23\_26 (CZ2), Hyzer\_29 (CZ1), LittleFella\_28 (DG2), LordFarquaad\_26 (CZ2), Mocha12\_26 (CZ2), Moosehead\_25 (CZ6), Sahara\_25 (CZ2), Savage\_26 (CZ2), Sidious\_28 (CZ7), Sproutie\_26 (CZ2), TuertoX\_26 (CZ2), Vasanti\_25 (CZ2), Whiteclaw\_26 (CZ2), Yeet412\_26 (CZ2),

### **Summary by clusters:**

There are 5 clusters represented in this pham: CZ2, DG2, CZ1, CZ6, CZ7,

Info for manual annotations of cluster CZ2:

- Start number 5 was manually annotated 5 times for cluster CZ2.
- Start number 6 was manually annotated 13 times for cluster CZ2.

Info for manual annotations of cluster CZ6:

- Start number 6 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster CZ7:

- Start number 6 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DG2:

- Start number 6 was manually annotated 1 time for cluster DG2.

### **Gene Information:**

Gene: Attis\_26 Start: 22006, Stop: 22284, Start Num: 5

Candidate Starts for Attis\_26:

(4, 21889), (Start: 5 @22006 has 5 MA's), (Start: 6 @22018 has 16 MA's), (8, 22039), (12, 22117), (14, 22177),

Gene: Bjaner7\_26 Start: 22018, Stop: 22284, Start Num: 6

Candidate Starts for Bjaner7\_26:

(4, 21889), (Start: 5 @22006 has 5 MA's), (Start: 6 @22018 has 16 MA's), (8, 22039), (12, 22117), (14, 22177),

Gene: Clap\_26 Start: 22025, Stop: 22291, Start Num: 6

Candidate Starts for Clap\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: Cynthia\_26 Start: 22013, Stop: 22291, Start Num: 5

Candidate Starts for Cynthia\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: Ebert\_26 Start: 22013, Stop: 22291, Start Num: 5

Candidate Starts for Ebert\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: GemG\_26 Start: 22013, Stop: 22291, Start Num: 5

Candidate Starts for GemG\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: Gizermo\_26 Start: 22025, Stop: 22291, Start Num: 6

Candidate Starts for Gizermo\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: Haley23\_26 Start: 22025, Stop: 22291, Start Num: 6

Candidate Starts for Haley23\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: Hyzer\_29 Start: 25250, Stop: 25510, Start Num: 6

Candidate Starts for Hyzer\_29:

(Start: 5 @25238 has 5 MA's), (Start: 6 @25250 has 16 MA's), (8, 25271), (9, 25289), (10, 25304), (13, 25355),

Gene: LittleFella\_28 Start: 25632, Stop: 25898, Start Num: 6

Candidate Starts for LittleFella\_28:

(Start: 6 @25632 has 16 MA's), (7, 25644), (16, 25872), (17, 25878),

Gene: LordFarquaad\_26 Start: 22018, Stop: 22284, Start Num: 6

Candidate Starts for LordFarquaad\_26:

(4, 21889), (Start: 5 @22006 has 5 MA's), (Start: 6 @22018 has 16 MA's), (8, 22039), (12, 22117), (14, 22177),

Gene: Mocha12\_26 Start: 22025, Stop: 22291, Start Num: 6

Candidate Starts for Mocha12\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: Moosehead\_25 Start: 20869, Stop: 21141, Start Num: 6

Candidate Starts for Moosehead\_25:

(1, 19969), (2, 20290), (3, 20428), (4, 20740), (Start: 6 @20869 has 16 MA's), (8, 20890), (9, 20908), (11, 20962),

Gene: Sahara\_25 Start: 21697, Stop: 21963, Start Num: 6

Candidate Starts for Sahara\_25:

(4, 21568), (Start: 5 @21685 has 5 MA's), (Start: 6 @21697 has 16 MA's), (8, 21718), (12, 21796), (14, 21856),

Gene: Savage\_26 Start: 22025, Stop: 22291, Start Num: 6

Candidate Starts for Savage\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: Sidious\_28 Start: 24575, Stop: 24841, Start Num: 6

Candidate Starts for Sidious\_28:

(Start: 6 @24575 has 16 MA's), (8, 24596), (9, 24614), (11, 24668), (15, 24800),

Gene: SoilAssassin\_26 Start: 22006, Stop: 22284, Start Num: 5

Candidate Starts for SoilAssassin\_26:

(4, 21889), (Start: 5 @22006 has 5 MA's), (Start: 6 @22018 has 16 MA's), (8, 22039), (12, 22117), (14, 22177),

Gene: Sproutie\_26 Start: 22025, Stop: 22291, Start Num: 6

Candidate Starts for Sproutie\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: TuertoX\_26 Start: 22025, Stop: 22291, Start Num: 6

Candidate Starts for TuertoX\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: Vasanti\_25 Start: 21588, Stop: 21860, Start Num: 6

Candidate Starts for Vasanti\_25:

(4, 21459), (Start: 6 @21588 has 16 MA's), (8, 21609), (9, 21627), (11, 21681),

Gene: Whiteclaw\_26 Start: 22025, Stop: 22291, Start Num: 6

Candidate Starts for Whiteclaw\_26:

(4, 21896), (Start: 5 @22013 has 5 MA's), (Start: 6 @22025 has 16 MA's), (8, 22046), (12, 22124), (14, 22184),

Gene: Yeet412\_26 Start: 22018, Stop: 22284, Start Num: 6

Candidate Starts for Yeet412\_26:

(4, 21889), (Start: 5 @22006 has 5 MA's), (Start: 6 @22018 has 16 MA's), (8, 22039), (12, 22117), (14, 22177),