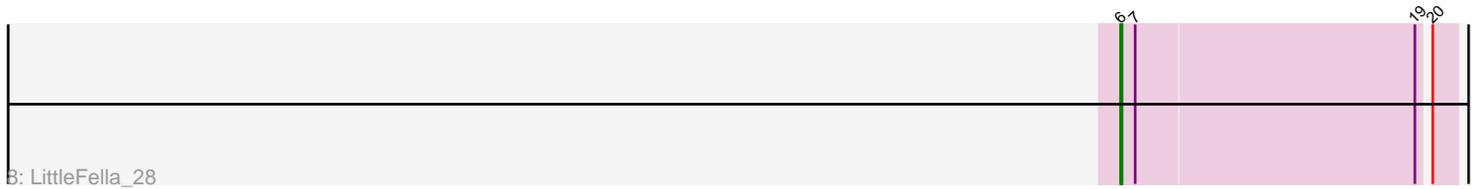
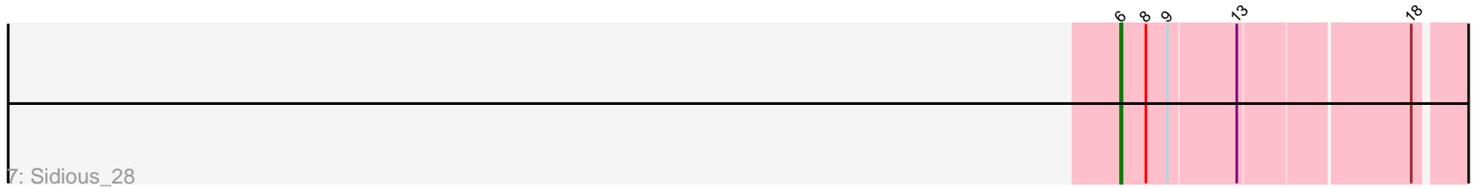
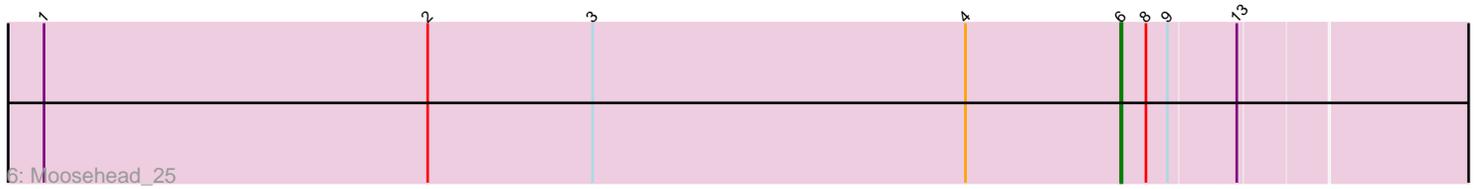
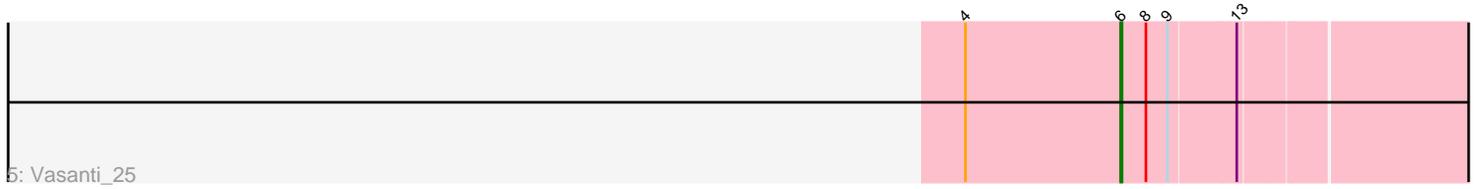
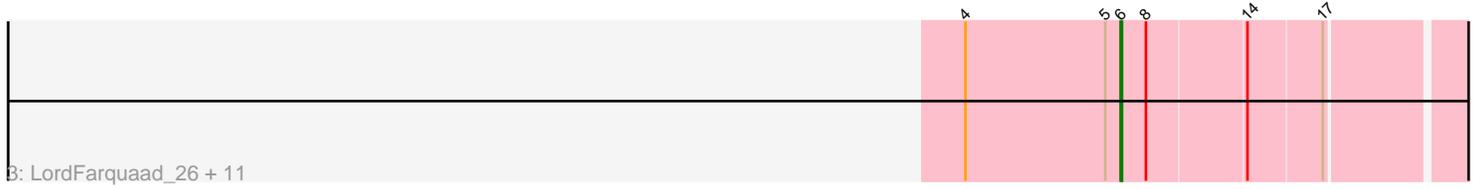
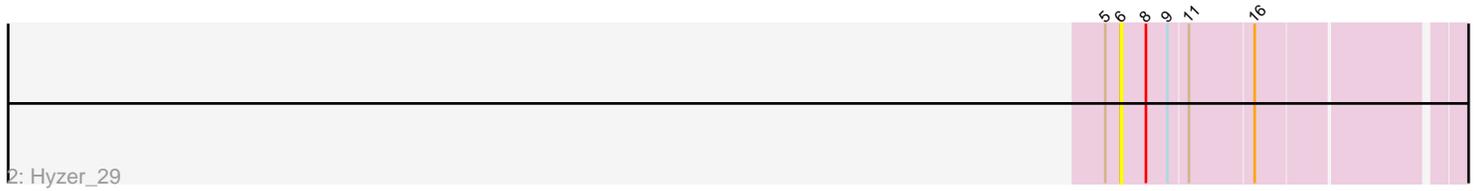
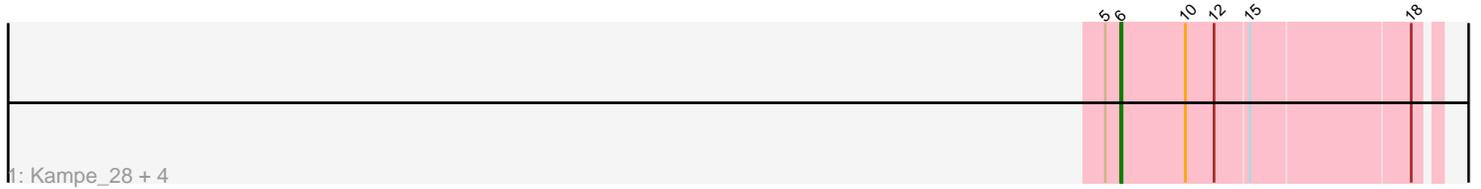


Pham 291428



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 291428 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291428 has 28 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Kampe_28, Gibbles_27, RobinSparkles_31, Orchid_28, PatrickStar_28
- Track 2 : Hyzer_29
- Track 3 : LordFarquaad_26, Sahara_25, Gizermo_26, Whiteclaw_26, Sproutie_26, Yeet412_26, Mocha12_26, Bjanes7_26, Savage_26, Haley23_26, Clap_26, TuertoX_26
- Track 4 : Ebert_26, SoilAssassin_26, Jalleen_26, Attis_26, GemG_26, Cynthia_26
- Track 5 : Vasanti_25
- Track 6 : Moosehead_25
- Track 7 : Sidious_28
- Track 8 : 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 21 of the 26 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bjanes7_26, Clap_26, Gibbles_27, Gizermo_26, Haley23_26, Hyzer_29, Kampe_28, LittleFella_28, LordFarquaad_26, Mocha12_26, Moosehead_25, Orchid_28, PatrickStar_28, RobinSparkles_31, 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, Jalleen_26, SoilAssassin_26,

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

-

Summary by start number:

Start 5:

- Found in 24 of 28 (85.7%) of genes in pham
- Manual Annotations of this start: 5 of 26
- Called 25.0% of time when present

- Phage (with cluster) where this start called: Attis_26 (CZ2), Cynthia_26 (CZ2), Ebert_26 (CZ2), GemG_26 (CZ2), Jalleen_26 (CZ2), SoilAssassin_26 (CZ2),

Start 6:

- Found in 28 of 28 (100.0%) of genes in pham
- Manual Annotations of this start: 21 of 26
- Called 78.6% of time when present
- Phage (with cluster) where this start called: Bjaner7_26 (CZ2), Clap_26 (CZ2), Gibbles_27 (CX), Gizermo_26 (CZ2), Haley23_26 (CZ2), Hyzer_29 (CZ1), Kampe_28 (CX), LittleFella_28 (DG2), LordFarquaad_26 (CZ2), Mocha12_26 (CZ2), Moosehead_25 (CZ6), Orchid_28 (CX), PatrickStar_28 (CX), RobinSparkles_31 (CX), 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 6 clusters represented in this pham: CZ2, CZ1, CZ6, CZ7, DG2, CX,

Info for manual annotations of cluster CX:

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

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 21 MA's), (8, 22039), (14, 22117), (17, 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 21 MA's), (8, 22039), (14, 22117), (17, 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 21 MA's), (8, 22046), (14, 22124), (17, 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 21 MA's), (8, 22046), (14, 22124), (17, 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 21 MA's), (8, 22046), (14, 22124), (17, 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 21 MA's), (8, 22046), (14, 22124), (17, 22184),

Gene: Gibbles_27 Start: 33173, Stop: 33424, Start Num: 6

Candidate Starts for Gibbles_27:

(Start: 5 @33161 has 5 MA's), (Start: 6 @33173 has 21 MA's), (10, 33227), (12, 33251), (15, 33278), (18, 33407),

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 21 MA's), (8, 22046), (14, 22124), (17, 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 21 MA's), (8, 22046), (14, 22124), (17, 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 21 MA's), (8, 25271), (9, 25289), (11, 25304), (16, 25355),

Gene: Jalleen_26 Start: 21652, Stop: 21930, Start Num: 5

Candidate Starts for Jalleen_26:

(4, 21535), (Start: 5 @21652 has 5 MA's), (Start: 6 @21664 has 21 MA's), (8, 21685), (14, 21763), (17, 21823),

Gene: Kampe_28 Start: 33034, Stop: 33285, Start Num: 6

Candidate Starts for Kampe_28:

(Start: 5 @33022 has 5 MA's), (Start: 6 @33034 has 21 MA's), (10, 33088), (12, 33112), (15, 33139), (18, 33268),

Gene: LittleFella_28 Start: 25632, Stop: 25898, Start Num: 6

Candidate Starts for LittleFella_28:

(Start: 6 @25632 has 21 MA's), (7, 25644), (19, 25872), (20, 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 21 MA's), (8, 22039), (14, 22117), (17, 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 21 MA's), (8, 22046), (14, 22124), (17, 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 21 MA's), (8, 20890), (9, 20908), (13, 20962),

Gene: Orchid_28 Start: 33034, Stop: 33285, Start Num: 6

Candidate Starts for Orchid_28:

(Start: 5 @33022 has 5 MA's), (Start: 6 @33034 has 21 MA's), (10, 33088), (12, 33112), (15, 33139), (18, 33268),

Gene: PatrickStar_28 Start: 33034, Stop: 33285, Start Num: 6

Candidate Starts for PatrickStar_28:

(Start: 5 @33022 has 5 MA's), (Start: 6 @33034 has 21 MA's), (10, 33088), (12, 33112), (15, 33139), (18, 33268),

Gene: RobinSparkles_31 Start: 33951, Stop: 34202, Start Num: 6

Candidate Starts for RobinSparkles_31:

(Start: 5 @33939 has 5 MA's), (Start: 6 @33951 has 21 MA's), (10, 34005), (12, 34029), (15, 34056), (18, 34185),

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 21 MA's), (8, 21718), (14, 21796), (17, 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 21 MA's), (8, 22046), (14, 22124), (17, 22184),

Gene: Sidious_28 Start: 24575, Stop: 24841, Start Num: 6

Candidate Starts for Sidious_28:

(Start: 6 @24575 has 21 MA's), (8, 24596), (9, 24614), (13, 24668), (18, 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 21 MA's), (8, 22039), (14, 22117), (17, 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 21 MA's), (8, 22046), (14, 22124), (17, 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 21 MA's), (8, 22046), (14, 22124), (17, 22184),

Gene: Vasanti_25 Start: 21588, Stop: 21860, Start Num: 6

Candidate Starts for Vasanti_25:

(4, 21459), (Start: 6 @21588 has 21 MA's), (8, 21609), (9, 21627), (13, 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 21 MA's), (8, 22046), (14, 22124), (17, 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 21 MA's), (8, 22039), (14, 22117), (17, 22177),