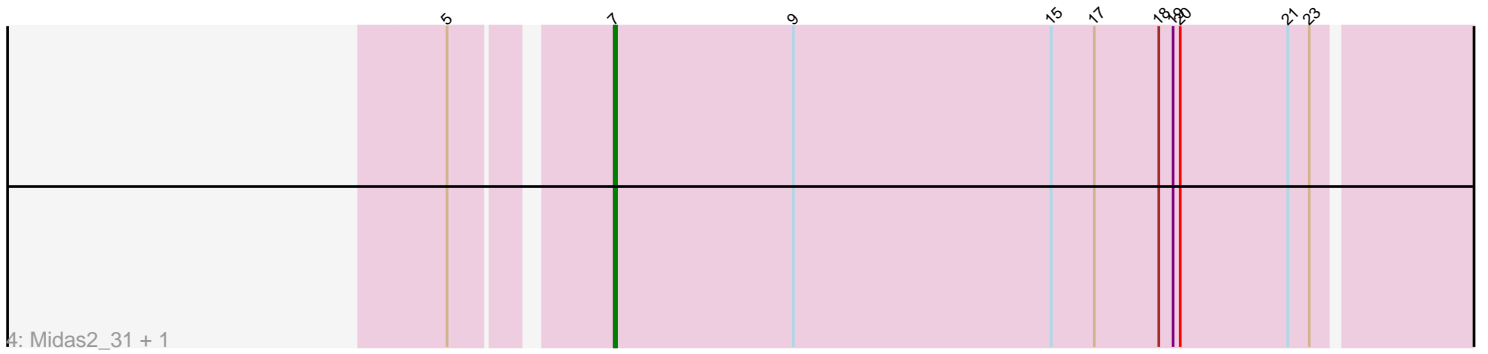
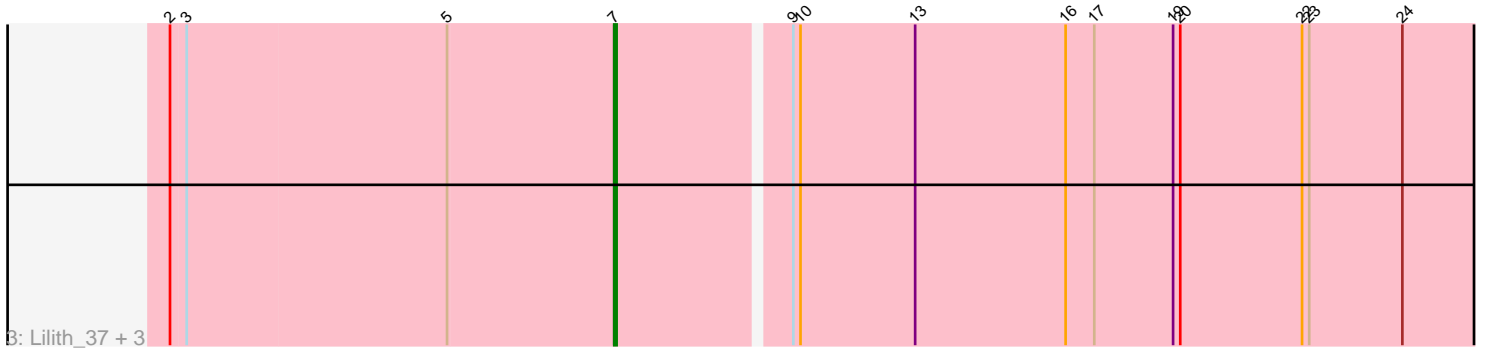
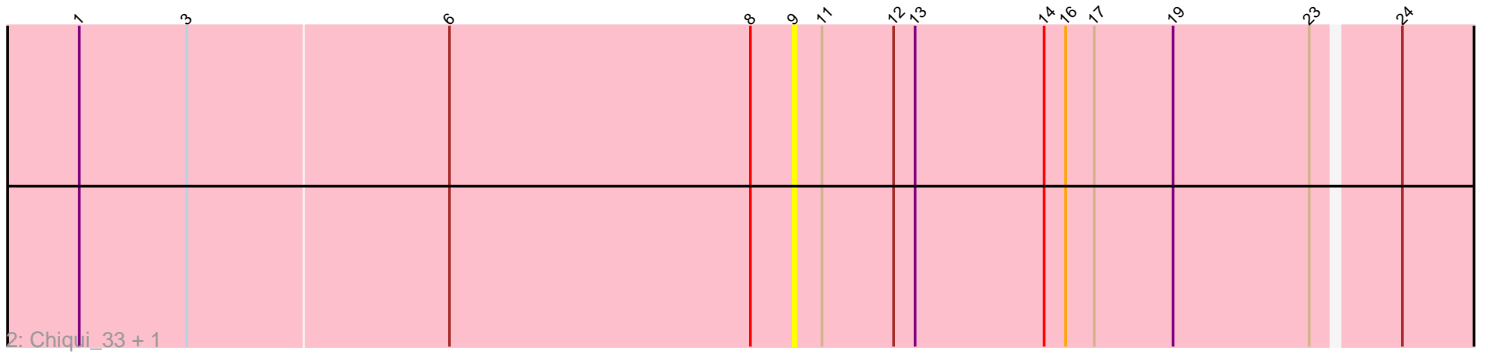
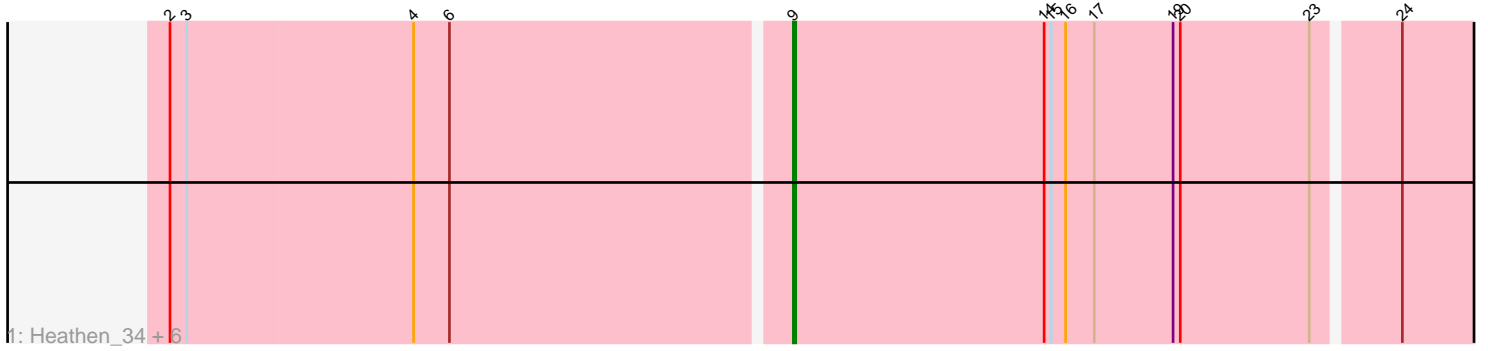


Pham 224986



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 224986 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224986 has 15 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Heathen_34, Marchesa_34, Kachowdy_34, Bugatti_34, SaturnRing_34, Giroux_34, DropBear_34
- Track 2 : Chiqui_33, BabyJohn_33
- Track 3 : Lilith_37, JenCasNa_37, Microwolf_37, Taurus_37
- Track 4 : Midas2_31, Coog_31

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

The start number called the most often in the published annotations is 7, it was called in 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Coog_31, JenCasNa_37, Lilith_37, Microwolf_37, Midas2_31, Taurus_37,

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

-

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

- BabyJohn_33, Bugatti_34, Chiqui_33, DropBear_34, Giroux_34, Heathen_34, Kachowdy_34, Marchesa_34, SaturnRing_34,

Summary by start number:

Start 7:

- Found in 6 of 15 (40.0%) of genes in pham
- Manual Annotations of this start: 6 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Coog_31 (A5), JenCasNa_37 (A3), Lilith_37 (A3), Microwolf_37 (A3), Midas2_31 (A5), Taurus_37 (A3),

Start 9:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 60.0% of time when present

- Phage (with cluster) where this start called: BabyJohn_33 (A3), Bugatti_34 (A3), Chiqui_33 (A3), DropBear_34 (A3), Giroux_34 (A3), Heathen_34 (A3), Kachowdy_34 (A3), Marchesa_34 (A3), SaturnRing_34 (A3),

Summary by clusters:

There are 2 clusters represented in this pham: A3, A5,

Info for manual annotations of cluster A3:

- Start number 7 was manually annotated 4 times for cluster A3.
- Start number 9 was manually annotated 1 time for cluster A3.

Info for manual annotations of cluster A5:

- Start number 7 was manually annotated 2 times for cluster A5.

Gene Information:

Gene: BabyJohn_33 Start: 27139, Stop: 27426, Start Num: 9

Candidate Starts for BabyJohn_33:

(1, 26842), (3, 26887), (6, 26995), (8, 27121), (Start: 9 @27139 has 1 MA's), (11, 27151), (12, 27181), (13, 27190), (14, 27244), (16, 27253), (17, 27265), (19, 27298), (23, 27355), (24, 27388),

Gene: Bugatti_34 Start: 26846, Stop: 27133, Start Num: 9

Candidate Starts for Bugatti_34:

(2, 26594), (3, 26600), (4, 26693), (6, 26708), (Start: 9 @26846 has 1 MA's), (14, 26951), (15, 26954), (16, 26960), (17, 26972), (19, 27005), (20, 27008), (23, 27062), (24, 27095),

Gene: Chiqui_33 Start: 27148, Stop: 27435, Start Num: 9

Candidate Starts for Chiqui_33:

(1, 26851), (3, 26896), (6, 27004), (8, 27130), (Start: 9 @27148 has 1 MA's), (11, 27160), (12, 27190), (13, 27199), (14, 27253), (16, 27262), (17, 27274), (19, 27307), (23, 27364), (24, 27397),

Gene: Coog_31 Start: 26050, Stop: 26412, Start Num: 7

Candidate Starts for Coog_31:

(5, 25993), (Start: 7 @26050 has 6 MA's), (Start: 9 @26125 has 1 MA's), (15, 26233), (17, 26251), (18, 26278), (19, 26284), (20, 26287), (21, 26332), (23, 26341),

Gene: DropBear_34 Start: 26913, Stop: 27200, Start Num: 9

Candidate Starts for DropBear_34:

(2, 26661), (3, 26667), (4, 26760), (6, 26775), (Start: 9 @26913 has 1 MA's), (14, 27018), (15, 27021), (16, 27027), (17, 27039), (19, 27072), (20, 27075), (23, 27129), (24, 27162),

Gene: Giroux_34 Start: 26845, Stop: 27132, Start Num: 9

Candidate Starts for Giroux_34:

(2, 26593), (3, 26599), (4, 26692), (6, 26707), (Start: 9 @26845 has 1 MA's), (14, 26950), (15, 26953), (16, 26959), (17, 26971), (19, 27004), (20, 27007), (23, 27061), (24, 27094),

Gene: Heathen_34 Start: 26654, Stop: 26941, Start Num: 9

Candidate Starts for Heathen_34:

(2, 26402), (3, 26408), (4, 26501), (6, 26516), (Start: 9 @26654 has 1 MA's), (14, 26759), (15, 26762), (16, 26768), (17, 26780), (19, 26813), (20, 26816), (23, 26870), (24, 26903),

Gene: JenCasNa_37 Start: 27268, Stop: 27630, Start Num: 7

Candidate Starts for JenCasNa_37:

(2, 27085), (3, 27091), (5, 27199), (Start: 7 @27268 has 6 MA's), (Start: 9 @27337 has 1 MA's), (10, 27340), (13, 27388), (16, 27451), (17, 27463), (19, 27496), (20, 27499), (22, 27550), (23, 27553), (24, 27592),

Gene: Kachowdy_34 Start: 26906, Stop: 27193, Start Num: 9

Candidate Starts for Kachowdy_34:

(2, 26654), (3, 26660), (4, 26753), (6, 26768), (Start: 9 @26906 has 1 MA's), (14, 27011), (15, 27014), (16, 27020), (17, 27032), (19, 27065), (20, 27068), (23, 27122), (24, 27155),

Gene: Lilith_37 Start: 27262, Stop: 27624, Start Num: 7

Candidate Starts for Lilith_37:

(2, 27079), (3, 27085), (5, 27193), (Start: 7 @27262 has 6 MA's), (Start: 9 @27331 has 1 MA's), (10, 27334), (13, 27382), (16, 27445), (17, 27457), (19, 27490), (20, 27493), (22, 27544), (23, 27547), (24, 27586),

Gene: Marchesa_34 Start: 26904, Stop: 27191, Start Num: 9

Candidate Starts for Marchesa_34:

(2, 26652), (3, 26658), (4, 26751), (6, 26766), (Start: 9 @26904 has 1 MA's), (14, 27009), (15, 27012), (16, 27018), (17, 27030), (19, 27063), (20, 27066), (23, 27120), (24, 27153),

Gene: Microwolf_37 Start: 27270, Stop: 27632, Start Num: 7

Candidate Starts for Microwolf_37:

(2, 27087), (3, 27093), (5, 27201), (Start: 7 @27270 has 6 MA's), (Start: 9 @27339 has 1 MA's), (10, 27342), (13, 27390), (16, 27453), (17, 27465), (19, 27498), (20, 27501), (22, 27552), (23, 27555), (24, 27594),

Gene: Midas2_31 Start: 26050, Stop: 26412, Start Num: 7

Candidate Starts for Midas2_31:

(5, 25993), (Start: 7 @26050 has 6 MA's), (Start: 9 @26125 has 1 MA's), (15, 26233), (17, 26251), (18, 26278), (19, 26284), (20, 26287), (21, 26332), (23, 26341),

Gene: SaturnRing_34 Start: 26846, Stop: 27133, Start Num: 9

Candidate Starts for SaturnRing_34:

(2, 26594), (3, 26600), (4, 26693), (6, 26708), (Start: 9 @26846 has 1 MA's), (14, 26951), (15, 26954), (16, 26960), (17, 26972), (19, 27005), (20, 27008), (23, 27062), (24, 27095),

Gene: Taurus_37 Start: 27268, Stop: 27630, Start Num: 7

Candidate Starts for Taurus_37:

(2, 27085), (3, 27091), (5, 27199), (Start: 7 @27268 has 6 MA's), (Start: 9 @27337 has 1 MA's), (10, 27340), (13, 27388), (16, 27451), (17, 27463), (19, 27496), (20, 27499), (22, 27550), (23, 27553), (24, 27592),