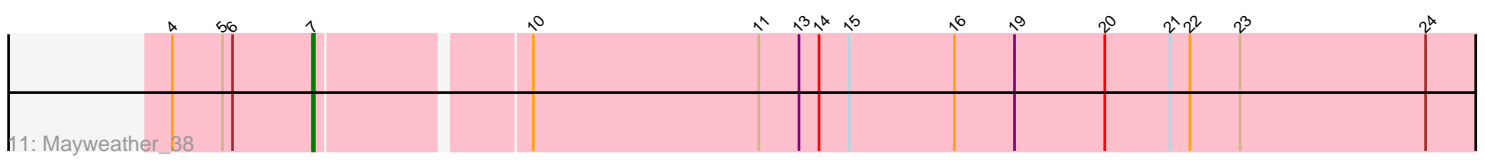
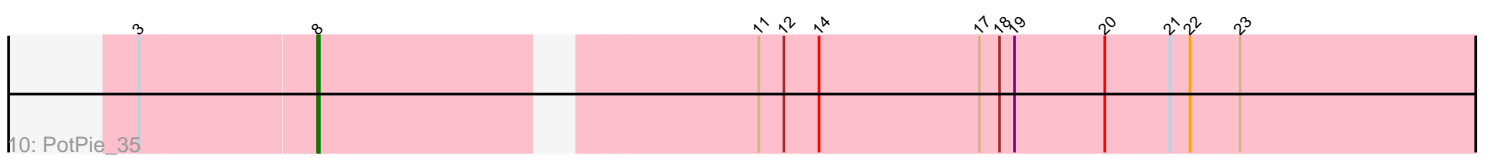
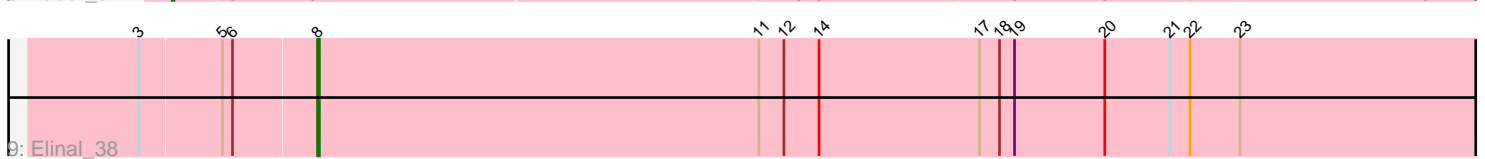
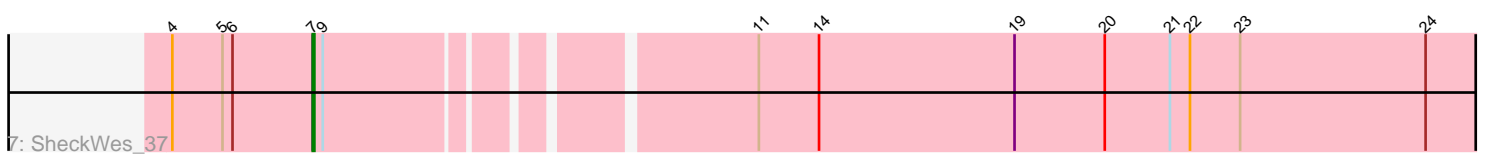
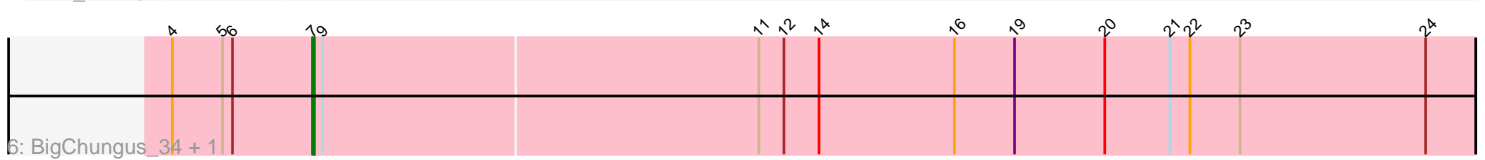
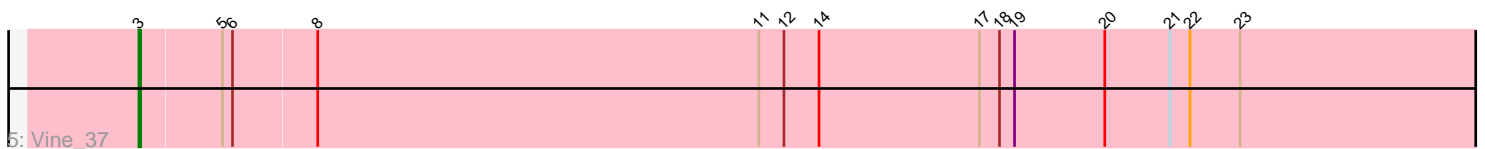
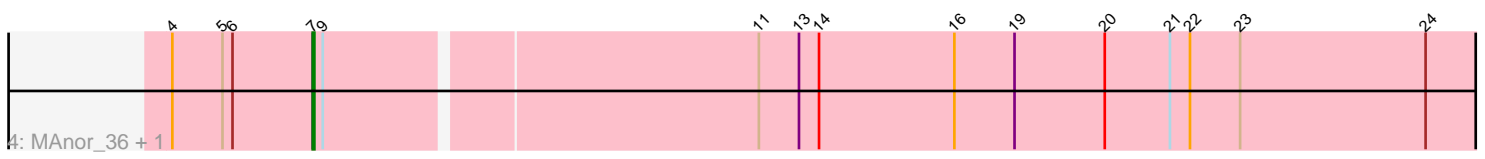
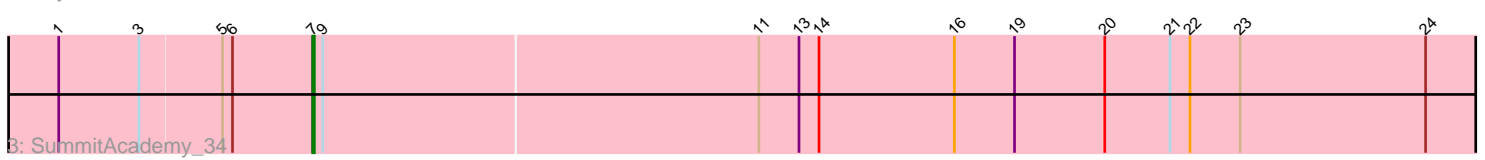
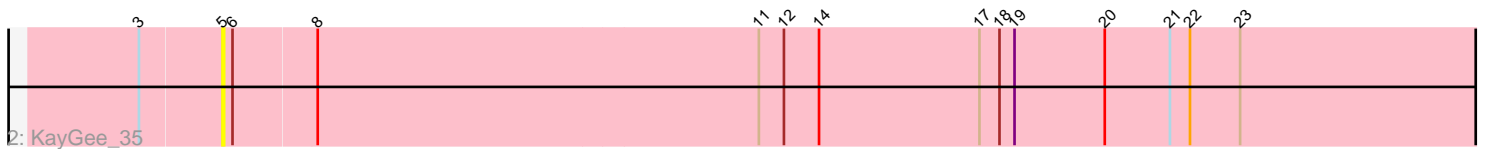
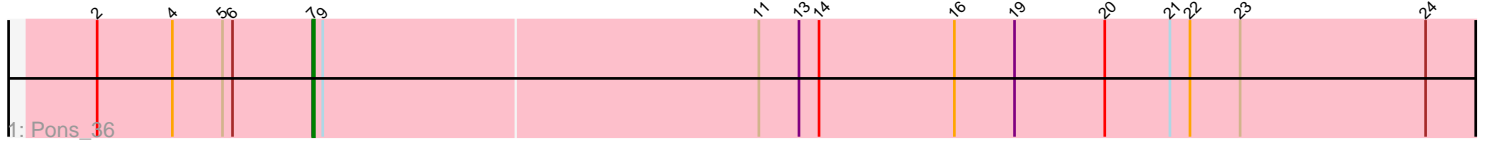


Pham 167129



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 167129 Report

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

Pham number 167129 has 13 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Pons\_36
- Track 2 : KayGee\_35
- Track 3 : SummitAcademy\_34
- Track 4 : MAnor\_36, CherryonLim\_37
- Track 5 : Vine\_37
- Track 6 : BigChungus\_34, Feastonyeet\_34
- Track 7 : SheckWes\_37
- Track 8 : Lauer\_32
- Track 9 : Elinal\_38
- Track 10 : PotPie\_35
- Track 11 : Mayweather\_38

### ***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 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BigChungus\_34, CherryonLim\_37, Feastonyeet\_34, MAnor\_36, Mayweather\_38, Pons\_36, SheckWes\_37, SummitAcademy\_34,

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

- Lauer\_32,

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

- Elinal\_38, KayGee\_35, PotPie\_35, Vine\_37,

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

Start 3:

- Found in 5 of 13 ( 38.5% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Vine\_37 (CT),

Start 4:

- Found in 8 of 13 ( 61.5% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 12.5% of time when present
- Phage (with cluster) where this start called: Lauer\_32 (CT),

Start 5:

- Found in 12 of 13 ( 92.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: KayGee\_35 (CT),

Start 7:

- Found in 9 of 13 ( 69.2% ) of genes in pham
- Manual Annotations of this start: 7 of 11
- Called 88.9% of time when present
- Phage (with cluster) where this start called: BigChungus\_34 (CT), CherryonLim\_37 (CT), Feastonyeet\_34 (CT), MAnor\_36 (CT), Mayweather\_38 (CT), Pons\_36 (CT), SheckWes\_37 (CT), SummitAcademy\_34 (CT),

Start 8:

- Found in 4 of 13 ( 30.8% ) of genes in pham
- Manual Annotations of this start: 2 of 11
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Elinal\_38 (CT), PotPie\_35 (CT),

**Summary by clusters:**

There is one cluster represented in this pham: CT

Info for manual annotations of cluster CT:

- Start number 3 was manually annotated 1 time for cluster CT.
- Start number 4 was manually annotated 1 time for cluster CT.
- Start number 7 was manually annotated 7 times for cluster CT.
- Start number 8 was manually annotated 2 times for cluster CT.

**Gene Information:**

Gene: BigChungus\_34 Start: 27021, Stop: 26305, Start Num: 7

Candidate Starts for BigChungus\_34:

(Start: 4 @27105 has 1 MA's), (5, 27075), (6, 27069), (Start: 7 @27021 has 7 MA's), (9, 27015), (11, 26757), (12, 26742), (14, 26721), (16, 26640), (19, 26604), (20, 26550), (21, 26511), (22, 26499), (23, 26469), (24, 26358),

Gene: CherryonLim\_37 Start: 28152, Stop: 27445, Start Num: 7

Candidate Starts for CherryonLim\_37:

(Start: 4 @28236 has 1 MA's), (5, 28206), (6, 28200), (Start: 7 @28152 has 7 MA's), (9, 28146), (11, 27897), (13, 27873), (14, 27861), (16, 27780), (19, 27744), (20, 27690), (21, 27651), (22, 27639), (23, 27609), (24, 27498),

Gene: Elinal\_38 Start: 27399, Stop: 26686, Start Num: 8

Candidate Starts for Elinal\_38:

(Start: 3 @27501 has 1 MA's), (5, 27453), (6, 27447), (Start: 8 @27399 has 2 MA's), (11, 27138), (12, 27123), (14, 27102), (17, 27006), (18, 26994), (19, 26985), (20, 26931), (21, 26892), (22, 26880), (23, 26850),

Gene: Feastonyeet\_34 Start: 27021, Stop: 26305, Start Num: 7

Candidate Starts for Feastonyeet\_34:

(Start: 4 @27105 has 1 MA's), (5, 27075), (6, 27069), (Start: 7 @27021 has 7 MA's), (9, 27015), (11, 26757), (12, 26742), (14, 26721), (16, 26640), (19, 26604), (20, 26550), (21, 26511), (22, 26499), (23, 26469), (24, 26358),

Gene: KayGee\_35 Start: 27453, Stop: 26686, Start Num: 5

Candidate Starts for KayGee\_35:

(Start: 3 @27501 has 1 MA's), (5, 27453), (6, 27447), (Start: 8 @27399 has 2 MA's), (11, 27138), (12, 27123), (14, 27102), (17, 27006), (18, 26994), (19, 26985), (20, 26931), (21, 26892), (22, 26880), (23, 26850),

Gene: Lauer\_32 Start: 28305, Stop: 27505, Start Num: 4

Candidate Starts for Lauer\_32:

(Start: 4 @28305 has 1 MA's), (5, 28275), (6, 28269), (Start: 7 @28221 has 7 MA's), (9, 28215), (11, 27957), (13, 27933), (14, 27921), (16, 27840), (19, 27804), (20, 27750), (21, 27711), (22, 27699), (23, 27669), (24, 27558),

Gene: MAnor\_36 Start: 27792, Stop: 27085, Start Num: 7

Candidate Starts for MAnor\_36:

(Start: 4 @27876 has 1 MA's), (5, 27846), (6, 27840), (Start: 7 @27792 has 7 MA's), (9, 27786), (11, 27537), (13, 27513), (14, 27501), (16, 27420), (19, 27384), (20, 27330), (21, 27291), (22, 27279), (23, 27249), (24, 27138),

Gene: Mayweather\_38 Start: 28017, Stop: 27313, Start Num: 7

Candidate Starts for Mayweather\_38:

(Start: 4 @28101 has 1 MA's), (5, 28071), (6, 28065), (Start: 7 @28017 has 7 MA's), (10, 27900), (11, 27765), (13, 27741), (14, 27729), (15, 27711), (16, 27648), (19, 27612), (20, 27558), (21, 27519), (22, 27507), (23, 27477), (24, 27366),

Gene: Pons\_36 Start: 27367, Stop: 26651, Start Num: 7

Candidate Starts for Pons\_36:

(2, 27496), (Start: 4 @27451 has 1 MA's), (5, 27421), (6, 27415), (Start: 7 @27367 has 7 MA's), (9, 27361), (11, 27103), (13, 27079), (14, 27067), (16, 26986), (19, 26950), (20, 26896), (21, 26857), (22, 26845), (23, 26815), (24, 26704),

Gene: PotPie\_35 Start: 28313, Stop: 27627, Start Num: 8

Candidate Starts for PotPie\_35:

(Start: 3 @28415 has 1 MA's), (Start: 8 @28313 has 2 MA's), (11, 28079), (12, 28064), (14, 28043), (17, 27947), (18, 27935), (19, 27926), (20, 27872), (21, 27833), (22, 27821), (23, 27791),

Gene: SheckWes\_37 Start: 26888, Stop: 26202, Start Num: 7

Candidate Starts for SheckWes\_37:

(Start: 4 @26972 has 1 MA's), (5, 26942), (6, 26936), (Start: 7 @26888 has 7 MA's), (9, 26882), (11, 26654), (14, 26618), (19, 26501), (20, 26447), (21, 26408), (22, 26396), (23, 26366), (24, 26255),

Gene: SummitAcademy\_34 Start: 26942, Stop: 26226, Start Num: 7

Candidate Starts for SummitAcademy\_34:

(1, 27092), (Start: 3 @27044 has 1 MA's), (5, 26996), (6, 26990), (Start: 7 @26942 has 7 MA's), (9, 26936), (11, 26678), (13, 26654), (14, 26642), (16, 26561), (19, 26525), (20, 26471), (21, 26432), (22, 26420), (23, 26390), (24, 26279),

Gene: Vine\_37 Start: 27784, Stop: 26969, Start Num: 3

Candidate Starts for Vine\_37:

(Start: 3 @27784 has 1 MA's), (5, 27736), (6, 27730), (Start: 8 @27682 has 2 MA's), (11, 27421), (12, 27406), (14, 27385), (17, 27289), (18, 27277), (19, 27268), (20, 27214), (21, 27175), (22, 27163), (23, 27133),