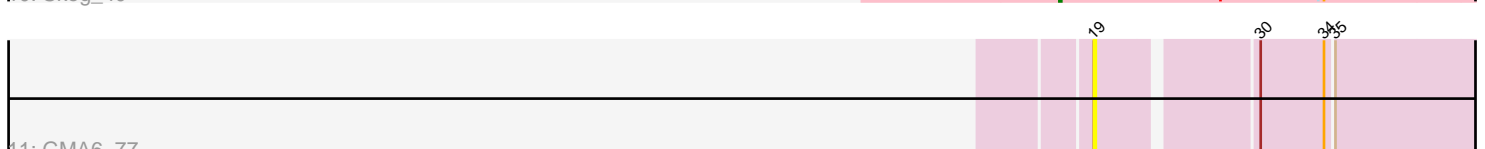
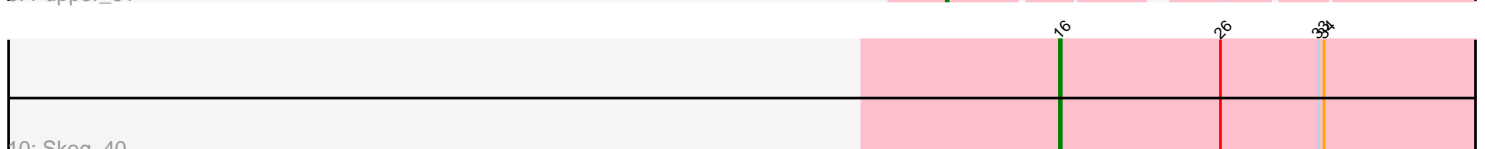
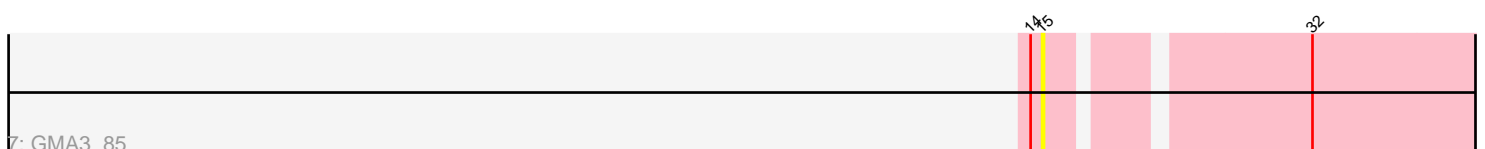
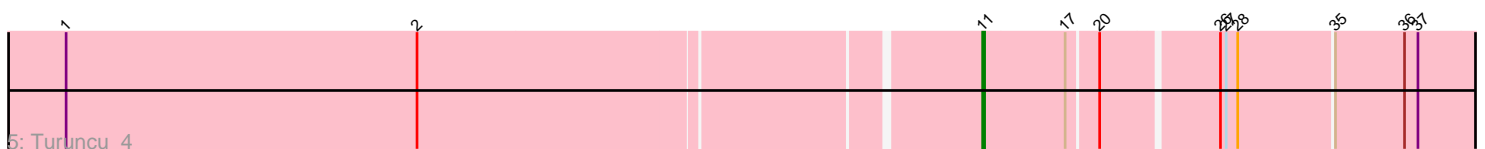
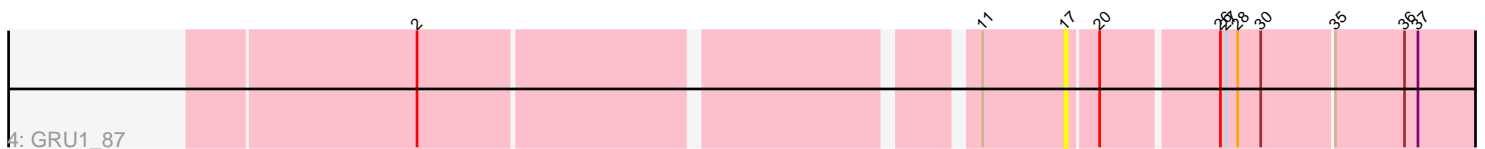
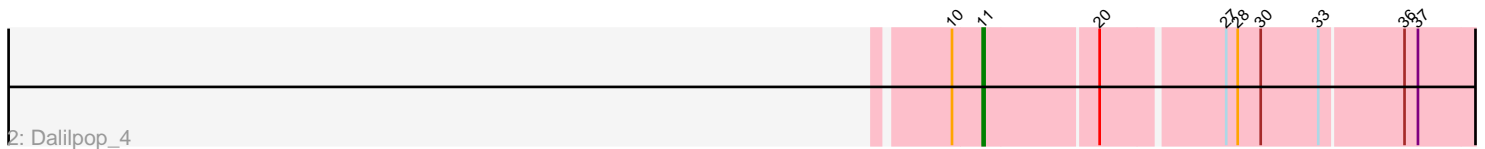
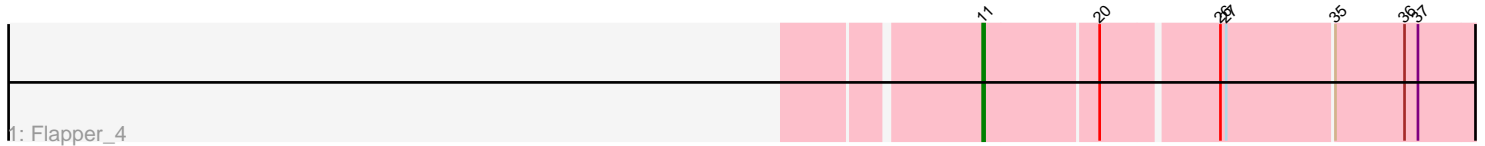


Pham 203487



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 203487 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203487 has 12 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Flapper\_4
- Track 2 : Dalilpop\_4
- Track 3 : GTE5\_86
- Track 4 : GRU1\_87
- Track 5 : Turuncu\_4
- Track 6 : Philon9\_76, Vitaenoi\_76
- Track 7 : GMA3\_85
- Track 8 : Jumbo\_75
- Track 9 : Pupper\_61
- Track 10 : Skog\_40
- Track 11 : GMA6\_77

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

The start number called the most often in the published annotations is 11, it was called in 3 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dalilpop\_4, Flapper\_4, GTE5\_86, Turuncu\_4,

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

- GRU1\_87,

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

- GMA3\_85, GMA6\_77, Jumbo\_75, Philon9\_76, Pupper\_61, Skog\_40, Vitaenoi\_76,

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

Start 9:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pupper\_61 (DO),

Start 11:

- Found in 5 of 12 ( 41.7% ) of genes in pham
- Manual Annotations of this start: 3 of 6
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Dalilpop\_4 (CR1), Flapper\_4 (CR1), GTE5\_86 (CR1), Turuncu\_4 (CR1),

Start 13:

- Found in 3 of 12 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jumbo\_75 (DF3), Philon9\_76 (CS4), Vitaenoi\_76 (CS4),

Start 15:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA3\_85 (DF2),

Start 16:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 6
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Skog\_40 (DO),

Start 17:

- Found in 3 of 12 ( 25.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: GRU1\_87 (CR1),

Start 19:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GMA6\_77 (DQ),

**Summary by clusters:**

There are 6 clusters represented in this pham: DO, CR1, DF3, DF2, CS4, DQ,

Info for manual annotations of cluster CR1:

- Start number 11 was manually annotated 3 times for cluster CR1.

Info for manual annotations of cluster DF3:

- Start number 13 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster DO:

- Start number 9 was manually annotated 1 time for cluster DO.
- Start number 16 was manually annotated 1 time for cluster DO.

**Gene Information:**

Gene: Dalilpop\_4 Start: 4003, Stop: 4266, Start Num: 11

Candidate Starts for Dalilpop\_4:

(10, 3988), (Start: 11 @4003 has 3 MA's), (20, 4060), (27, 4120), (28, 4126), (30, 4138), (33, 4168), (36, 4210), (37, 4216),

Gene: Flapper\_4 Start: 3298, Stop: 3561, Start Num: 11

Candidate Starts for Flapper\_4:

(Start: 11 @3298 has 3 MA's), (20, 3355), (26, 3412), (27, 3415), (35, 3469), (36, 3505), (37, 3511),

Gene: GMA3\_85 Start: 62001, Stop: 61762, Start Num: 15

Candidate Starts for GMA3\_85:

(14, 62007), (15, 62001), (32, 61881),

Gene: GMA6\_77 Start: 60323, Stop: 60514, Start Num: 19

Candidate Starts for GMA6\_77:

(19, 60323), (30, 60398), (34, 60431), (35, 60434),

Gene: GRU1\_87 Start: 62358, Stop: 62579, Start Num: 17

Candidate Starts for GRU1\_87:

(2, 62052), (Start: 11 @62316 has 3 MA's), (17, 62358), (20, 62373), (26, 62430), (27, 62433), (28, 62439), (30, 62451), (35, 62487), (36, 62523), (37, 62529),

Gene: GTE5\_86 Start: 63211, Stop: 63474, Start Num: 11

Candidate Starts for GTE5\_86:

(Start: 11 @63211 has 3 MA's), (17, 63253), (20, 63268), (21, 63286), (26, 63325), (35, 63382), (36, 63418), (37, 63424),

Gene: Jumbo\_75 Start: 62257, Stop: 62012, Start Num: 13

Candidate Starts for Jumbo\_75:

(3, 62419), (4, 62362), (5, 62356), (6, 62353), (7, 62350), (8, 62311), (Start: 13 @62257 has 1 MA's), (Start: 16 @62236 has 1 MA's), (23, 62188), (25, 62167), (27, 62158), (29, 62149), (31, 62137),

Gene: Philon9\_76 Start: 63844, Stop: 63608, Start Num: 13

Candidate Starts for Philon9\_76:

(12, 63847), (Start: 13 @63844 has 1 MA's), (18, 63820), (22, 63793), (24, 63775), (25, 63760), (28, 63745), (36, 63661),

Gene: Pupper\_61 Start: 21282, Stop: 21548, Start Num: 9

Candidate Starts for Pupper\_61:

(Start: 9 @21282 has 1 MA's), (27, 21405),

Gene: Skog\_40 Start: 18074, Stop: 18316, Start Num: 16

Candidate Starts for Skog\_40:

(Start: 16 @18074 has 1 MA's), (26, 18158), (33, 18209), (34, 18212),

Gene: Turuncu\_4 Start: 3194, Stop: 3457, Start Num: 11

Candidate Starts for Turuncu\_4:

(1, 2732), (2, 2915), (Start: 11 @3194 has 3 MA's), (17, 3236), (20, 3251), (26, 3308), (27, 3311), (28, 3317), (35, 3365), (36, 3401), (37, 3407),

Gene: Vitaenoi\_76 Start: 63828, Stop: 63592, Start Num: 13

Candidate Starts for Vitaenoi\_76:

(12, 63831), (Start: 13 @63828 has 1 MA's), (18, 63804), (22, 63777), (24, 63759), (25, 63744), (28, 63729), (36, 63645),