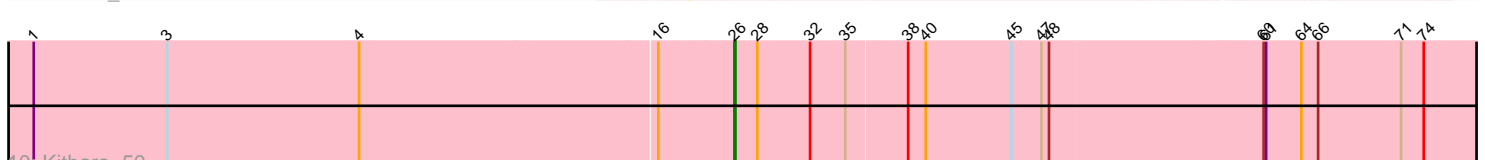
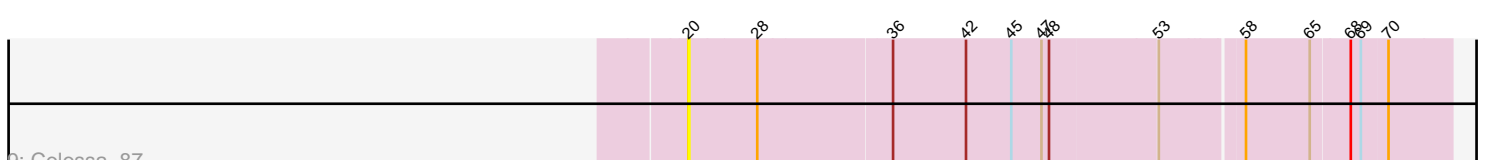
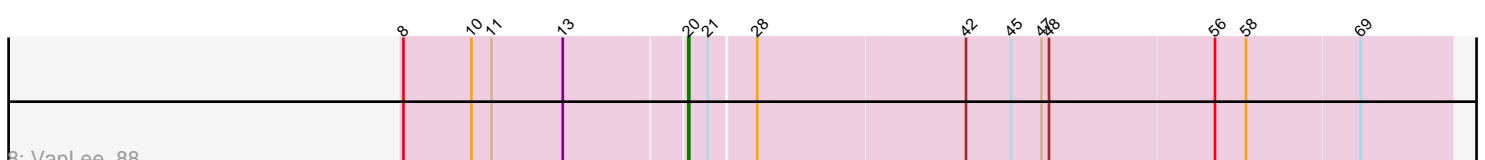
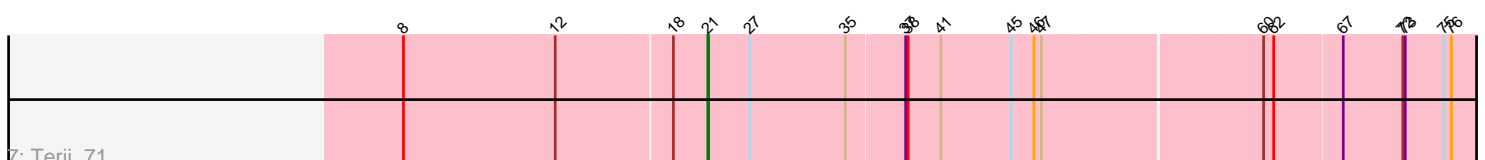
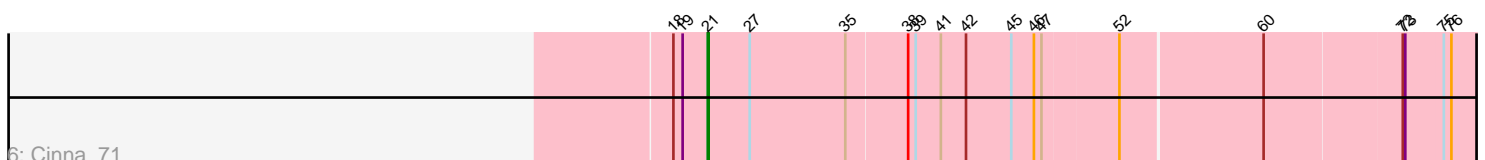
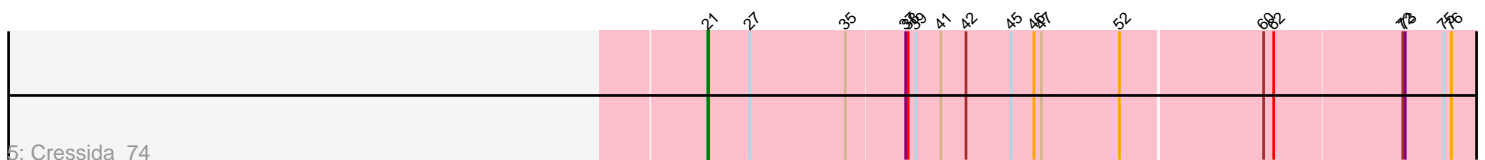
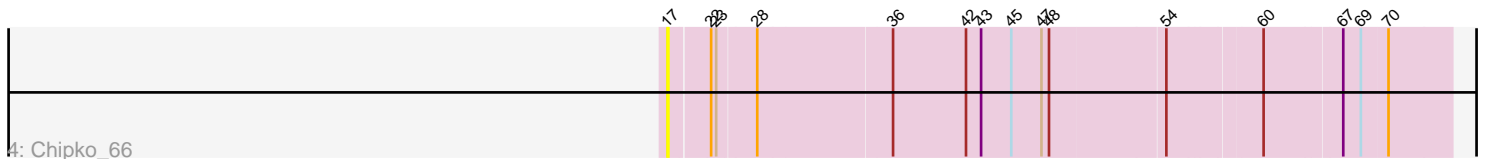
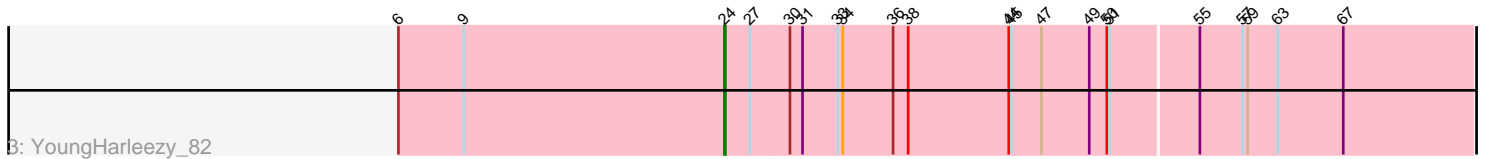
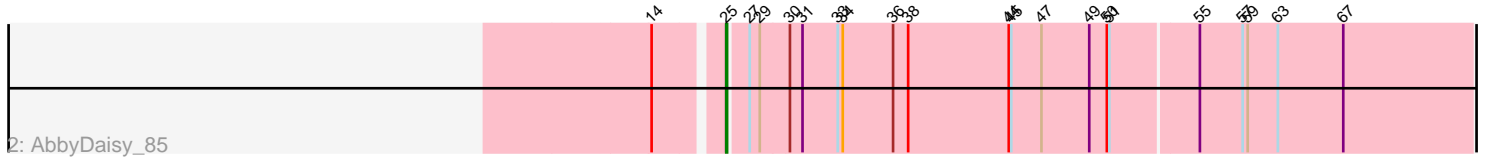
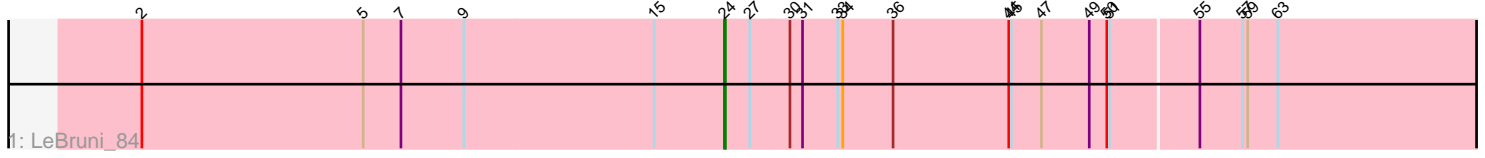


# Pham 297205



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 297205 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297205 has 10 members, 2 are drafts.

Phages represented in each track:

- Track 1 : LeBruni\_84
- Track 2 : AbbyDaisy\_85
- Track 3 : YoungHarleezy\_82
- Track 4 : Chipko\_66
- Track 5 : Cressida\_74
- Track 6 : Cinna\_71
- Track 7 : Terij\_71
- Track 8 : VanLee\_88
- Track 9 : Colossa\_87
- Track 10 : Kithara\_50

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

The start number called the most often in the published annotations is 21, it was called in 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Cinna\_71, Cressida\_74, Terij\_71,

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

- VanLee\_88,

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

- AbbyDaisy\_85, Chipko\_66, Colossa\_87, Kithara\_50, LeBruni\_84, YoungHarleezy\_82,

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

Start 17:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chipko\_66 (DB),

Start 20:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Colossa\_87 (KA), VanLee\_88 (KA),

Start 21:

- Found in 4 of 10 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 3 of 8
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Cinna\_71 (EI), Cressida\_74 (EI), Terij\_71 (EI),

Start 24:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 2 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LeBruni\_84 (AY), YoungHarleezy\_82 (AY),

Start 25:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AbbyDaisy\_85 (AY),

Start 26:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 8
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kithara\_50 (singleton),

**Summary by clusters:**

There are 5 clusters represented in this pham: AY, EI, singleton, DB, KA,

Info for manual annotations of cluster AY:

- Start number 24 was manually annotated 2 times for cluster AY.
- Start number 25 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster EI:

- Start number 21 was manually annotated 3 times for cluster EI.

Info for manual annotations of cluster KA:

- Start number 20 was manually annotated 1 time for cluster KA.

**Gene Information:**

Gene: AbbyDaisy\_85 Start: 48805, Stop: 49686, Start Num: 25

Candidate Starts for AbbyDaisy\_85:

(14, 48733), (Start: 25 @48805 has 1 MA's), (27, 48826), (29, 48838), (30, 48871), (31, 48886), (33, 48928), (34, 48934), (36, 48994), (38, 49012), (44, 49132), (45, 49135), (47, 49168), (49, 49225), (50, 49246), (51, 49249), (55, 49348), (57, 49399), (59, 49405), (63, 49441), (67, 49519),

Gene: Chipko\_66 Start: 42997, Stop: 43869, Start Num: 17

Candidate Starts for Chipko\_66:

(17, 42997), (22, 43039), (23, 43045), (28, 43087), (36, 43240), (42, 43327), (43, 43345), (45, 43381), (47, 43414), (48, 43423), (54, 43555), (60, 43657), (67, 43744), (69, 43765), (70, 43795),

Gene: Cinna\_71 Start: 45361, Stop: 46236, Start Num: 21

Candidate Starts for Cinna\_71:

(18, 45322), (19, 45331), (Start: 21 @45361 has 3 MA's), (27, 45409), (35, 45523), (38, 45592), (39, 45601), (41, 45631), (42, 45661), (45, 45715), (46, 45742), (47, 45751), (52, 45838), (60, 45997), (72, 46150), (73, 46153), (75, 46192), (76, 46201),

Gene: Colossa\_87 Start: 47987, Stop: 48844, Start Num: 20

Candidate Starts for Colossa\_87:

(Start: 20 @47987 has 1 MA's), (28, 48065), (36, 48218), (42, 48305), (45, 48359), (47, 48392), (48, 48401), (53, 48524), (58, 48611), (65, 48686), (68, 48728), (69, 48740), (70, 48770),

Gene: Cressida\_74 Start: 44976, Stop: 45851, Start Num: 21

Candidate Starts for Cressida\_74:

(Start: 21 @44976 has 3 MA's), (27, 45024), (35, 45138), (37, 45204), (38, 45207), (39, 45216), (41, 45246), (42, 45276), (45, 45330), (46, 45357), (47, 45366), (52, 45453), (60, 45612), (62, 45624), (72, 45765), (73, 45768), (75, 45807), (76, 45816),

Gene: Kithara\_50 Start: 40288, Stop: 39392, Start Num: 26

Candidate Starts for Kithara\_50:

(1, 41107), (3, 40948), (4, 40720), (16, 40372), (Start: 26 @40288 has 1 MA's), (28, 40261), (32, 40198), (35, 40156), (38, 40087), (40, 40066), (45, 39964), (47, 39928), (48, 39919), (60, 39673), (61, 39670), (64, 39628), (66, 39610), (71, 39511), (74, 39484),

Gene: LeBruni\_84 Start: 46812, Stop: 47714, Start Num: 24

Candidate Starts for LeBruni\_84:

(2, 46119), (5, 46383), (7, 46428), (9, 46503), (15, 46728), (Start: 24 @46812 has 2 MA's), (27, 46842), (30, 46887), (31, 46902), (33, 46944), (34, 46950), (36, 47010), (44, 47148), (45, 47151), (47, 47184), (49, 47241), (50, 47262), (51, 47265), (55, 47364), (57, 47415), (59, 47421), (63, 47457),

Gene: Terij\_71 Start: 43915, Stop: 44793, Start Num: 21

Candidate Starts for Terij\_71:

(8, 43564), (12, 43741), (18, 43876), (Start: 21 @43915 has 3 MA's), (27, 43963), (35, 44077), (37, 44143), (38, 44146), (41, 44185), (45, 44269), (46, 44296), (47, 44305), (60, 44551), (62, 44563), (67, 44638), (72, 44704), (73, 44707), (75, 44746), (76, 44755),

Gene: VanLee\_88 Start: 48644, Stop: 49501, Start Num: 20

Candidate Starts for VanLee\_88:

(8, 48320), (10, 48401), (11, 48425), (13, 48509), (Start: 20 @48644 has 1 MA's), (Start: 21 @48665 has 3 MA's), (28, 48716), (42, 48956), (45, 49010), (47, 49043), (48, 49052), (56, 49238), (58, 49268), (69, 49397),

Gene: YoungHarleezy\_82 Start: 46570, Stop: 47463, Start Num: 24

Candidate Starts for YoungHarleezy\_82:

(6, 46183), (9, 46261), (Start: 24 @46570 has 2 MA's), (27, 46600), (30, 46645), (31, 46660), (33, 46702), (34, 46708), (36, 46768), (38, 46786), (44, 46906), (45, 46909), (47, 46942), (49, 46999), (50, 47020), (51, 47023), (55, 47122), (57, 47173), (59, 47179), (63, 47215), (67, 47293),