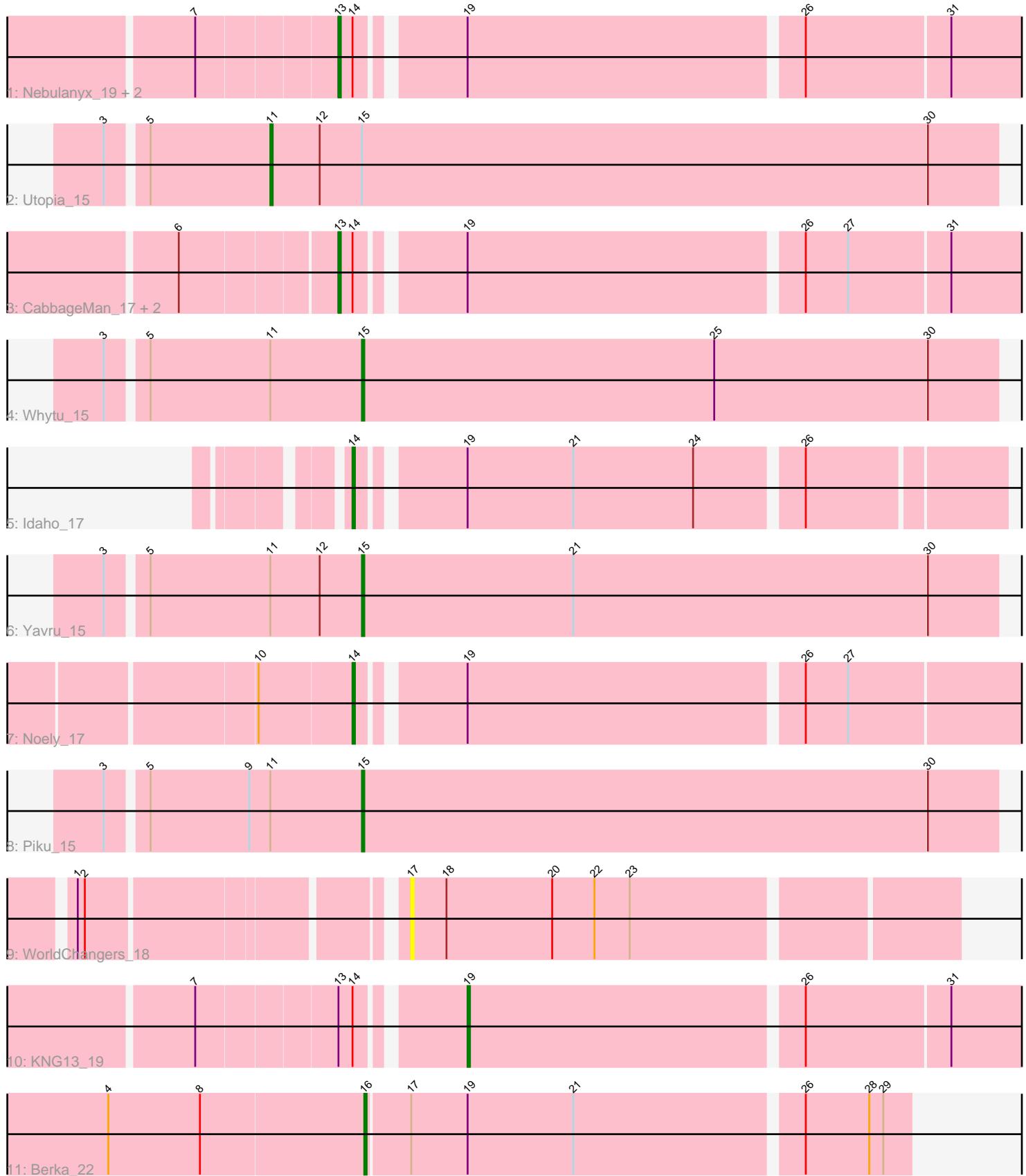


# Pham 280998



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 280998 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280998 has 15 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Nebulanyx\_19, Corgi\_19, CheeseDanish\_19
- Track 2 : Utopia\_15
- Track 3 : CabbageMan\_17, Pauu\_18, LauKoruNamu\_18
- Track 4 : Whytu\_15
- Track 5 : Idaho\_17
- Track 6 : Yavru\_15
- Track 7 : Noely\_17
- Track 8 : Piku\_15
- Track 9 : WorldChangers\_18
- Track 10 : KNG13\_19
- Track 11 : Berka\_22

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

The start number called the most often in the published annotations is 15, it was called in 3 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Piku\_15, Whytu\_15, Yavru\_15,

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

- Utopia\_15,

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

- Berka\_22, CabbageMan\_17, CheeseDanish\_19, Corgi\_19, Idaho\_17, KNG13\_19, LauKoruNamu\_18, Nebulanyx\_19, Noely\_17, Pauu\_18, WorldChangers\_18,

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

Start 11:

- Found in 4 of 15 ( 26.7% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Utopia\_15 (FE),

Start 13:

- Found in 7 of 15 ( 46.7% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 85.7% of time when present
- Phage (with cluster) where this start called: CabbageMan\_17 (FE), CheeseDanish\_19 (FE), Corgi\_19 (FE), LauKoruNamu\_18 (FE), Nebulanyx\_19 (FE), Pauu\_18 (FE),

Start 14:

- Found in 9 of 15 ( 60.0% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 22.2% of time when present
- Phage (with cluster) where this start called: Idaho\_17 (FE), Noely\_17 (FE),

Start 15:

- Found in 4 of 15 ( 26.7% ) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Piku\_15 (FE), Whytu\_15 (FE), Yavru\_15 (FE),

Start 16:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Berka\_22 (FE),

Start 17:

- Found in 2 of 15 ( 13.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: WorldChangers\_18 (FE),

Start 19:

- Found in 10 of 15 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 10.0% of time when present
- Phage (with cluster) where this start called: KNG13\_19 (FE),

**Summary by clusters:**

There is one cluster represented in this pham: FE

Info for manual annotations of cluster FE:

- Start number 11 was manually annotated 1 time for cluster FE.
- Start number 13 was manually annotated 2 times for cluster FE.
- Start number 14 was manually annotated 2 times for cluster FE.
- Start number 15 was manually annotated 3 times for cluster FE.
- Start number 16 was manually annotated 1 time for cluster FE.
- Start number 19 was manually annotated 1 time for cluster FE.

### **Gene Information:**

Gene: Berka\_22 Start: 13026, Stop: 13250, Start Num: 16

Candidate Starts for Berka\_22:

(4, 12918), (8, 12957), (Start: 16 @13026 has 1 MA's), (17, 13044), (Start: 19 @13068 has 1 MA's), (21, 13113), (26, 13206), (28, 13233), (29, 13239),

Gene: CabbageMan\_17 Start: 13096, Stop: 13374, Start Num: 13

Candidate Starts for CabbageMan\_17:

(6, 13033), (Start: 13 @13096 has 2 MA's), (Start: 14 @13102 has 2 MA's), (Start: 19 @13141 has 1 MA's), (26, 13279), (27, 13297), (31, 13339),

Gene: CheeseDanish\_19 Start: 13255, Stop: 13533, Start Num: 13

Candidate Starts for CheeseDanish\_19:

(7, 13198), (Start: 13 @13255 has 2 MA's), (Start: 14 @13261 has 2 MA's), (Start: 19 @13300 has 1 MA's), (26, 13438), (31, 13498),

Gene: Corgi\_19 Start: 13255, Stop: 13533, Start Num: 13

Candidate Starts for Corgi\_19:

(7, 13198), (Start: 13 @13255 has 2 MA's), (Start: 14 @13261 has 2 MA's), (Start: 19 @13300 has 1 MA's), (26, 13438), (31, 13498),

Gene: Idaho\_17 Start: 13517, Stop: 13774, Start Num: 14

Candidate Starts for Idaho\_17:

(Start: 14 @13517 has 2 MA's), (Start: 19 @13556 has 1 MA's), (21, 13601), (24, 13652), (26, 13694),

Gene: KNG13\_19 Start: 13297, Stop: 13530, Start Num: 19

Candidate Starts for KNG13\_19:

(7, 13195), (Start: 13 @13252 has 2 MA's), (Start: 14 @13258 has 2 MA's), (Start: 19 @13297 has 1 MA's), (26, 13435), (31, 13495),

Gene: LauKoruNamu\_18 Start: 13096, Stop: 13374, Start Num: 13

Candidate Starts for LauKoruNamu\_18:

(6, 13033), (Start: 13 @13096 has 2 MA's), (Start: 14 @13102 has 2 MA's), (Start: 19 @13141 has 1 MA's), (26, 13279), (27, 13297), (31, 13339),

Gene: Nebulanyx\_19 Start: 13252, Stop: 13530, Start Num: 13

Candidate Starts for Nebulanyx\_19:

(7, 13195), (Start: 13 @13252 has 2 MA's), (Start: 14 @13258 has 2 MA's), (Start: 19 @13297 has 1 MA's), (26, 13435), (31, 13495),

Gene: Noely\_17 Start: 12627, Stop: 12899, Start Num: 14

Candidate Starts for Noely\_17:

(10, 12588), (Start: 14 @12627 has 2 MA's), (Start: 19 @12666 has 1 MA's), (26, 12804), (27, 12822),

Gene: Pauu\_18 Start: 13096, Stop: 13374, Start Num: 13

Candidate Starts for Pauu\_18:

(6, 13033), (Start: 13 @13096 has 2 MA's), (Start: 14 @13102 has 2 MA's), (Start: 19 @13141 has 1 MA's), (26, 13279), (27, 13297), (31, 13339),

Gene: Piku\_15 Start: 12477, Stop: 12746, Start Num: 15

Candidate Starts for Piku\_15:

(3, 12372), (5, 12387), (9, 12429), (Start: 11 @12438 has 1 MA's), (Start: 15 @12477 has 3 MA's), (30, 12717),

Gene: Utopia\_15 Start: 12409, Stop: 12717, Start Num: 11

Candidate Starts for Utopia\_15:

(3, 12343), (5, 12358), (Start: 11 @12409 has 1 MA's), (12, 12430), (Start: 15 @12448 has 3 MA's), (30, 12688),

Gene: Whytu\_15 Start: 12543, Stop: 12812, Start Num: 15

Candidate Starts for Whytu\_15:

(3, 12438), (5, 12453), (Start: 11 @12504 has 1 MA's), (Start: 15 @12543 has 3 MA's), (25, 12693), (30, 12783),

Gene: WorldChangers\_18 Start: 12884, Stop: 13108, Start Num: 17

Candidate Starts for WorldChangers\_18:

(1, 12761), (2, 12764), (17, 12884), (18, 12899), (20, 12944), (22, 12962), (23, 12977),

Gene: Yavru\_15 Start: 12438, Stop: 12707, Start Num: 15

Candidate Starts for Yavru\_15:

(3, 12333), (5, 12348), (Start: 11 @12399 has 1 MA's), (12, 12420), (Start: 15 @12438 has 3 MA's), (21, 12528), (30, 12678),