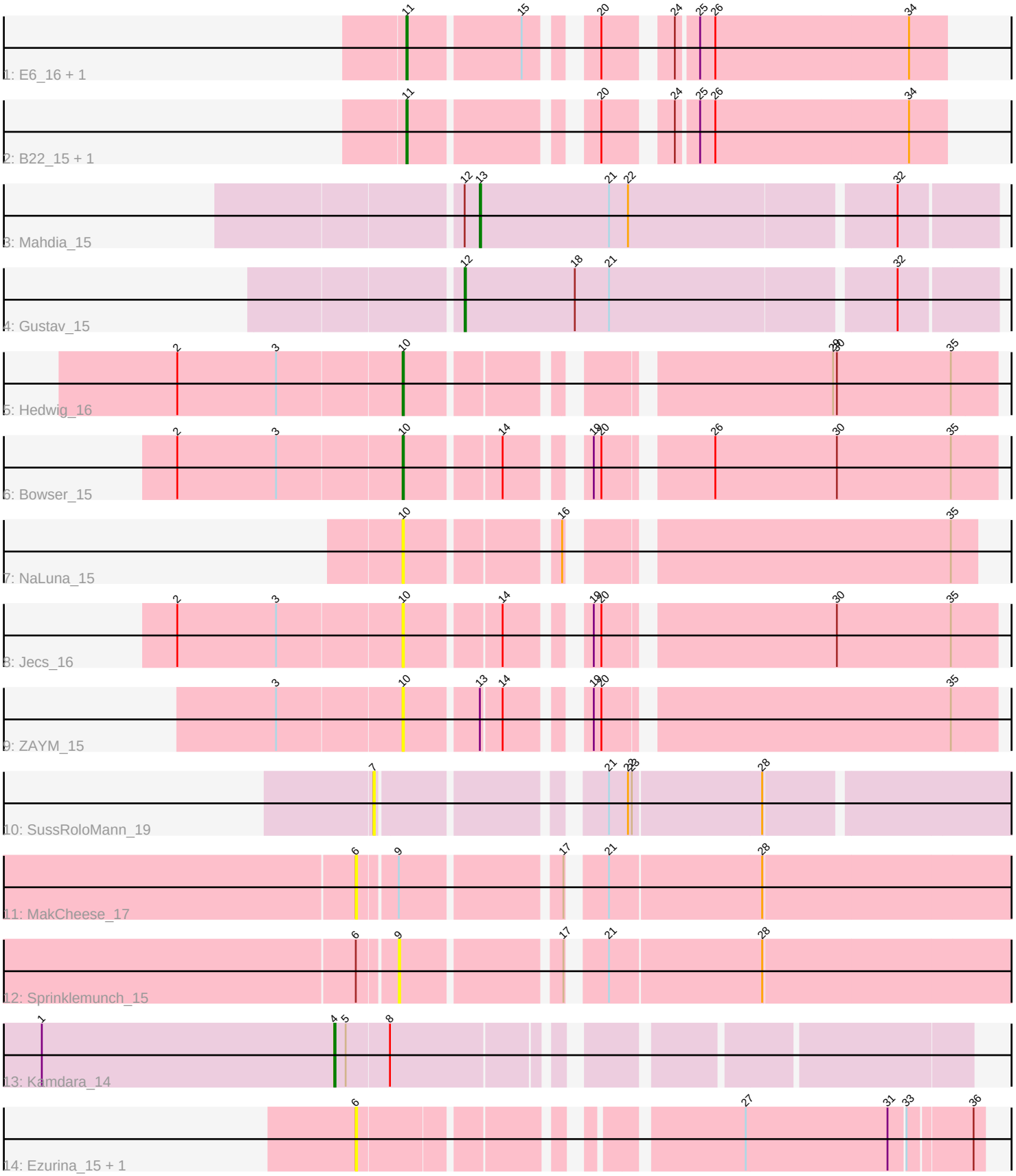
Pham 346226


1: E6_16 + 1
2: B22_15 + 1
3: Mahdia_15
4: Gustav_15
5: Hedwig_16
6: Bowser_15
7: NaLuna_15
8: Jecs_16
9: ZAYM_15
10: SussRoloMann_19
11: MakCheese_17
12: Sprinklemunch_15
13: Kamdara_14
14: Ezurina_15 + 1

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 346226 Report

This analysis was run 11/14/26 on database version 672.

Pham number 346226 has 17 members, 8 are drafts.

Phages represented in each track:
• Track 1 : E6_16, Doucette_15
• Track 2 : B22_15, G4_15
• Track 3 : Mahdia_15
• Track 4 : Gustav_15
• Track 5 : Hedwig_16
• Track 6 : Bowser_15
• Track 7 : NaLuna_15
• Track 8 : Jecs_16
• Track 9 : ZAYM_15
• Track 10 : SussRoloMann_19
• Track 11 : MakCheese_17
• Track 12 : Sprinklemunch_15
• Track 13 : Kamdara_14
• Track 14 : Ezurina_15, Neuvillette_16

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 4 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• B22_15, Doucette_15, E6_16, G4_15,

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

Genes that do not have the "Most Annotated" start:
• Bowser_15, Ezurina_15, Gustav_15, Hedwig_16, Jecs_16, Kamdara_14, Mahdia_15, MakCheese_17, NaLuna_15, Neuvillette_16, Sprinklemunch_15, SussRoloMann_19, ZAYM_15,

Summary by start number:

Start 4:

• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kamdara_14 (EB),

Start 6:
• Found in 4 of 17 (23.5%) of genes in pham
• No Manual Annotations of this start.
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Ezurina_15 (FR), MakCheese_17 (DW), Neuvillette_16 (FR),

Start 7:
• Found in 1 of 17 (5.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SussRoloMann_19 (DI),

Start 9:
• Found in 2 of 17 (11.8%) of genes in pham
• No Manual Annotations of this start.
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Sprinklemunch_15 (DW),

Start 10:
• Found in 5 of 17 (29.4%) of genes in pham
• Manual Annotations of this start: 2 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bowser_15 (DB), Hedwig_16 (DB), Jecs_16 (DB), NaLuna_15 (DB), ZAYM_15 (DB),

Start 11:
• Found in 4 of 17 (23.5%) of genes in pham
• Manual Annotations of this start: 4 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: B22_15 (BW), Doucette_15 (BW), E6_16 (BW), G4_15 (BW),

Start 12:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Gustav_15 (CD),

Start 13:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Mahdia_15 (CD),

Summary by clusters:

There are 7 clusters represented in this pham: FR, DI, DB, CD, BW, DW, EB,

Info for manual annotations of cluster BW:
•Start number 11 was manually annotated 4 times for cluster BW.

Info for manual annotations of cluster CD:
•Start number 12 was manually annotated 1 time for cluster CD.
•Start number 13 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DB:
•Start number 10 was manually annotated 2 times for cluster DB.

Info for manual annotations of cluster EB:
•Start number 4 was manually annotated 1 time for cluster EB.

Gene Information:

Gene: B22_15 Start: 9378, Stop: 9746, Start Num: 11
Candidate Starts for B22_15:
(Start: 11 @9378 has 4 MA's), (20, 9498), (24, 9540), (25, 9555), (26, 9567), (34, 9717),

Gene: Bowser_15 Start: 9678, Stop: 10091, Start Num: 10
Candidate Starts for Bowser_15:
(2, 9504), (3, 9582), (Start: 10 @9678 has 2 MA's), (14, 9747), (19, 9792), (20, 9798), (26, 9870), (30, 9966), (35, 10056),

Gene: Doucette_15 Start: 9437, Stop: 9805, Start Num: 11
Candidate Starts for Doucette_15:
(Start: 11 @9437 has 4 MA's), (15, 9521), (20, 9557), (24, 9599), (25, 9614), (26, 9626), (34, 9776),

Gene: E6_16 Start: 9485, Stop: 9853, Start Num: 11
Candidate Starts for E6_16:
(Start: 11 @9485 has 4 MA's), (15, 9569), (20, 9605), (24, 9647), (25, 9662), (26, 9674), (34, 9824),

Gene: Ezurina_15 Start: 8704, Stop: 9135, Start Num: 6
Candidate Starts for Ezurina_15:
(6, 8704), (27, 8956), (31, 9067), (33, 9079), (36, 9127),

Gene: G4_15 Start: 9427, Stop: 9795, Start Num: 11
Candidate Starts for G4_15:
(Start: 11 @9427 has 4 MA's), (20, 9547), (24, 9589), (25, 9604), (26, 9616), (34, 9766),

Gene: Gustav_15 Start: 9420, Stop: 9824, Start Num: 12
Candidate Starts for Gustav_15:
(Start: 12 @9420 has 1 MA's), (18, 9507), (21, 9534), (32, 9750),

Gene: Hedwig_16 Start: 10100, Stop: 10513, Start Num: 10
Candidate Starts for Hedwig_16:
(2, 9926), (3, 10004), (Start: 10 @10100 has 2 MA's), (29, 10385), (30, 10388), (35, 10478),

Gene: Jecs_16 Start: 10010, Stop: 10423, Start Num: 10
Candidate Starts for Jecs_16:
(2, 9836), (3, 9914), (Start: 10 @10010 has 2 MA's), (14, 10079), (19, 10124), (20, 10130), (30, 10298), (35, 10388),

Gene: Kamdara_14 Start: 9669, Stop: 10114, Start Num: 4
Candidate Starts for Kamdara_14:
(1, 9438), (Start: 4 @9669 has 1 MA's), (5, 9678), (8, 9711),

Gene: Mahdia_15 Start: 9351, Stop: 9743, Start Num: 13
Candidate Starts for Mahdia_15:
(Start: 12 @9339 has 1 MA's), (Start: 13 @9351 has 1 MA's), (21, 9453), (22, 9468), (32, 9669),

Gene: MakCheese_17 Start: 9459, Stop: 9935, Start Num: 6
Candidate Starts for MakCheese_17:
(6, 9459), (9, 9486), (17, 9600), (21, 9621), (28, 9738),

Gene: NaLuna_15 Start: 9692, Stop: 10090, Start Num: 10
Candidate Starts for NaLuna_15:
(Start: 10 @9692 has 2 MA's), (16, 9797), (35, 10070),

Gene: Neuvillette_16 Start: 9135, Stop: 9566, Start Num: 6
Candidate Starts for Neuvillette_16:
(6, 9135), (27, 9387), (31, 9498), (33, 9510), (36, 9558),

Gene: Sprinklemunch_15 Start: 9520, Stop: 9969, Start Num: 9
Candidate Starts for Sprinklemunch_15:
(6, 9493), (9, 9520), (17, 9634), (21, 9655), (28, 9772),

Gene: SussRoloMann_19 Start: 11035, Stop: 11511, Start Num: 7
Candidate Starts for SussRoloMann_19:
(7, 11035), (21, 11185), (22, 11200), (23, 11203), (28, 11302),

Gene: ZAYM_15 Start: 10021, Stop: 10434, Start Num: 10
Candidate Starts for ZAYM_15:
(3, 9925), (Start: 10 @10021 has 2 MA's), (Start: 13 @10075 has 1 MA's), (14, 10090), (19, 10135), (20, 10141), (35, 10399),