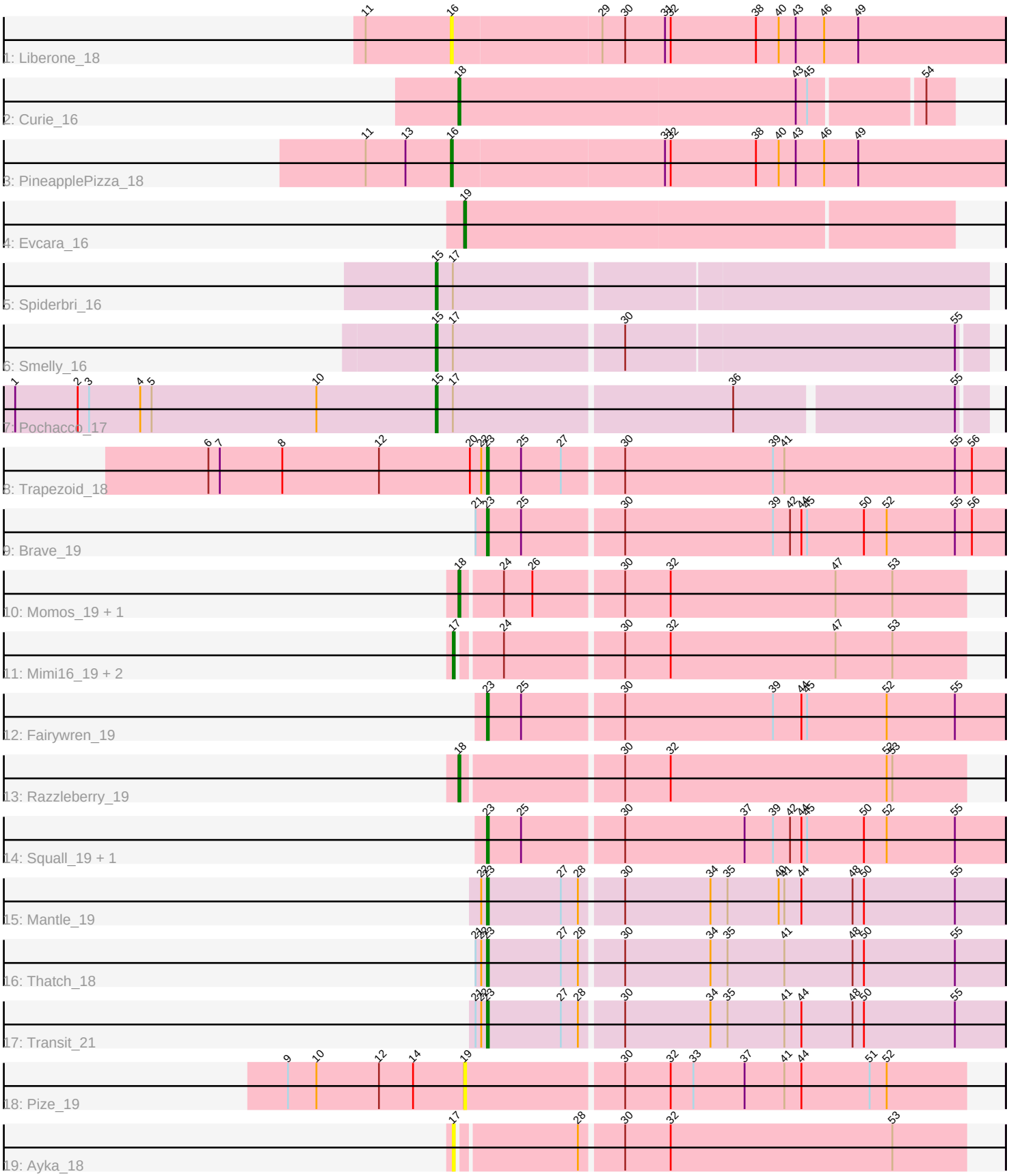
Pham 291518


1: Liberone_18
2: Curie_16
3: PineapplePizza_18
4: Evcara_16
5: Spiderbri_16
6: Smelly_16
7: Pochacco_17
8: Trapezoid_18
9: Brave_19
10: Momos_19 + 1
11: Mimi16_19 + 2
12: Fairywren_19
13: Razzleberry_19
14: Squall_19 + 1
15: Mantle_19
16: Thatch_18
17: Transit_21
18: Pize_19
19: Ayka_18

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 291518 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291518 has 23 members, 3 are drafts.

Phages represented in each track:
- Track 1 : Liberone_18
- Track 2 : Curie_16
- Track 3 : PineapplePizza_18
- Track 4 : Evcara_16
- Track 5 : Spiderbri_16
- Track 6 : Smelly_16
- Track 7 : Pochacco_17
- Track 8 : Trapezoid_18
- Track 9 : Brave_19
- Track 10 : Momos_19, Ellison17_19
- Track 11 : Mimi16_19, Prophecy_19, Grotle_19
- Track 12 : Fairywren_19
- Track 13 : Razzleberry_19
- Track 14 : Squall_19, Penne_19
- Track 15 : Mantle_19
- Track 16 : Thatch_18
- Track 17 : Transit_21
- Track 18 : Pize_19
- Track 19 : Ayka_18

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

The start number called the most often in the published annotations is 23, it was called in 8 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Brave_19, Fairywren_19, Mantle_19, Penne_19, Squall_19, Thatch_18, Transit_21, Trapezoid_18,

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

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

• Ayka_18, Curie_16, Ellison17_19, Evcara_16, Grotle_19, Liberone_18, Mimi16_19, Momos_19, PineapplePizza_18, Pize_19, Pochacco_17, Prophecy_19, Razzleberry_19, Smelly_16, Spiderbri_16,

Summary by start number:

Start 15:
• Found in 3 of 23 (13.0%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pochacco_17 (GK), Smelly_16 (GK), Spiderbri_16 (GK),

Start 16:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Liberone_18 (GI), PineapplePizza_18 (GI),

Start 17:
• Found in 7 of 23 (30.4%) of genes in pham
• Manual Annotations of this start: 3 of 20
• Called 57.1% of time when present
• Phage (with cluster) where this start called: Ayka_18 (UNK), Grotle_19 (JB1), Mimi16_19 (JB1), Prophecy_19 (JB1),

Start 18:
• Found in 4 of 23 (17.4%) of genes in pham
• Manual Annotations of this start: 4 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Curie_16 (GI), Ellison17_19 (JB1), Momos_19 (JB1), Razzleberry_19 (JB1),

Start 19:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 1 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Evcara_16 (GI), Pize_19 (UNK),

Start 23:
• Found in 8 of 23 (34.8%) of genes in pham
• Manual Annotations of this start: 8 of 20
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Brave_19 (JB1), Fairywren_19 (JB1), Mantle_19 (JB2), Penne_19 (JB1), Squall_19 (JB1), Thatch_18 (JB2), Transit_21 (JB2), Trapezoid_18 (JB1),

Summary by clusters:

There are 5 clusters represented in this pham: UNK, GK, GI, JB1, JB2,

Info for manual annotations of cluster GI:

•Start number 16 was manually annotated 1 time for cluster GI.
•Start number 18 was manually annotated 1 time for cluster GI.
•Start number 19 was manually annotated 1 time for cluster GI.

Info for manual annotations of cluster GK:
•Start number 15 was manually annotated 3 times for cluster GK.

Info for manual annotations of cluster JB1:
•Start number 17 was manually annotated 3 times for cluster JB1.
•Start number 18 was manually annotated 3 times for cluster JB1.
•Start number 23 was manually annotated 5 times for cluster JB1.

Info for manual annotations of cluster JB2:
•Start number 23 was manually annotated 3 times for cluster JB2.

Gene Information:

Gene: Ayka_18 Start: 17062, Stop: 17322, Start Num: 17
Candidate Starts for Ayka_18:
(Start: 17 @17062 has 3 MA's), (28, 17122), (30, 17143), (32, 17167), (53, 17284),

Gene: Brave_19 Start: 16494, Stop: 16763, Start Num: 23
Candidate Starts for Brave_19:
(21, 16488), (Start: 23 @16494 has 8 MA's), (25, 16512), (30, 16563), (39, 16641), (42, 16650), (44, 16656), (45, 16659), (50, 16689), (52, 16701), (55, 16737), (56, 16746),

Gene: Curie_16 Start: 14741, Stop: 14995, Start Num: 18
Candidate Starts for Curie_16:
(Start: 18 @14741 has 4 MA's), (43, 14918), (45, 14924), (54, 14981),

Gene: Ellison17_19 Start: 16885, Stop: 17145, Start Num: 18
Candidate Starts for Ellison17_19:
(Start: 18 @16885 has 4 MA's), (24, 16906), (26, 16921), (30, 16966), (32, 16990), (47, 17077), (53, 17107),

Gene: Evcara_16 Start: 14668, Stop: 14922, Start Num: 19
Candidate Starts for Evcara_16:
(Start: 19 @14668 has 1 MA's),

Gene: Fairywren_19 Start: 16442, Stop: 16711, Start Num: 23
Candidate Starts for Fairywren_19:
(Start: 23 @16442 has 8 MA's), (25, 16460), (30, 16511), (39, 16589), (44, 16604), (45, 16607), (52, 16649), (55, 16685),

Gene: Grotle_19 Start: 16841, Stop: 17101, Start Num: 17
Candidate Starts for Grotle_19:
(Start: 17 @16841 has 3 MA's), (24, 16862), (30, 16922), (32, 16946), (47, 17033), (53, 17063),

Gene: Liberone_18 Start: 15266, Stop: 15556, Start Num: 16
Candidate Starts for Liberone_18:

(11, 15221), (Start: 16 @15266 has 1 MA's), (29, 15344), (30, 15356), (31, 15377), (32, 15380), (38, 15425), (40, 15437), (43, 15446), (46, 15461), (49, 15479),

Gene: Mantle_19 Start: 17905, Stop: 18174, Start Num: 23
Candidate Starts for Mantle_19:
(22, 17902), (Start: 23 @17905 has 8 MA's), (27, 17944), (28, 17953), (30, 17974), (34, 18019), (35, 18028), (40, 18055), (41, 18058), (44, 18067), (48, 18094), (50, 18100), (55, 18148),

Gene: Mimi16_19 Start: 16892, Stop: 17152, Start Num: 17
Candidate Starts for Mimi16_19:
(Start: 17 @16892 has 3 MA's), (24, 16913), (30, 16973), (32, 16997), (47, 17084), (53, 17114),

Gene: Momos_19 Start: 16885, Stop: 17145, Start Num: 18
Candidate Starts for Momos_19:
(Start: 18 @16885 has 4 MA's), (24, 16906), (26, 16921), (30, 16966), (32, 16990), (47, 17077), (53, 17107),

Gene: Penne_19 Start: 16494, Stop: 16763, Start Num: 23
Candidate Starts for Penne_19:
(Start: 23 @16494 has 8 MA's), (25, 16512), (30, 16563), (37, 16626), (39, 16641), (42, 16650), (44, 16656), (45, 16659), (50, 16689), (52, 16701), (55, 16737),

Gene: PineapplePizza_18 Start: 15199, Stop: 15489, Start Num: 16
Candidate Starts for PineapplePizza_18:
(11, 15154), (13, 15175), (Start: 16 @15199 has 1 MA's), (31, 15310), (32, 15313), (38, 15358), (40, 15370), (43, 15379), (46, 15394), (49, 15412),

Gene: Pize_19 Start: 16706, Stop: 16966, Start Num: 19
Candidate Starts for Pize_19:
(9, 16613), (10, 16628), (12, 16661), (14, 16679), (Start: 19 @16706 has 1 MA's), (30, 16787), (32, 16811), (33, 16823), (37, 16850), (41, 16871), (44, 16880), (51, 16916), (52, 16925),

Gene: Pochacco_17 Start: 14534, Stop: 14812, Start Num: 15
Candidate Starts for Pochacco_17:
(1, 14312), (2, 14345), (3, 14351), (4, 14378), (5, 14384), (10, 14471), (Start: 15 @14534 has 3 MA's), (Start: 17 @14543 has 3 MA's), (36, 14687), (55, 14798),

Gene: Prophecy_19 Start: 16892, Stop: 17152, Start Num: 17
Candidate Starts for Prophecy_19:
(Start: 17 @16892 has 3 MA's), (24, 16913), (30, 16973), (32, 16997), (47, 17084), (53, 17114),

Gene: Razzleberry_19 Start: 16976, Stop: 17236, Start Num: 18
Candidate Starts for Razzleberry_19:
(Start: 18 @16976 has 4 MA's), (30, 17057), (32, 17081), (52, 17195), (53, 17198),

Gene: Smelly_16 Start: 14230, Stop: 14511, Start Num: 15
Candidate Starts for Smelly_16:
(Start: 15 @14230 has 3 MA's), (Start: 17 @14239 has 3 MA's), (30, 14326), (55, 14497),

Gene: Spiderbri_16 Start: 14458, Stop: 14742, Start Num: 15
Candidate Starts for Spiderbri_16:
(Start: 15 @14458 has 3 MA's), (Start: 17 @14467 has 3 MA's),

Gene: Squall_19 Start: 16464, Stop: 16733, Start Num: 23
Candidate Starts for Squall_19:
(Start: 23 @16464 has 8 MA's), (25, 16482), (30, 16533), (37, 16596), (39, 16611), (42, 16620), (44, 16626), (45, 16629), (50, 16659), (52, 16671), (55, 16707),

Gene: Thatch_18 Start: 17448, Stop: 17717, Start Num: 23
Candidate Starts for Thatch_18:
(21, 17442), (22, 17445), (Start: 23 @17448 has 8 MA's), (27, 17487), (28, 17496), (30, 17517), (34, 17562), (35, 17571), (41, 17601), (48, 17637), (50, 17643), (55, 17691),

Gene: Transit_21 Start: 17942, Stop: 18211, Start Num: 23
Candidate Starts for Transit_21:
(21, 17936), (22, 17939), (Start: 23 @17942 has 8 MA's), (27, 17981), (28, 17990), (30, 18011), (34, 18056), (35, 18065), (41, 18095), (44, 18104), (48, 18131), (50, 18137), (55, 18185),

Gene: Trapezoid_18 Start: 16228, Stop: 16497, Start Num: 23
Candidate Starts for Trapezoid_18:
(6, 16081), (7, 16087), (8, 16120), (12, 16171), (20, 16219), (22, 16225), (Start: 23 @16228 has 8 MA's), (25, 16246), (27, 16267), (30, 16297), (39, 16375), (41, 16381), (55, 16471), (56, 16480),