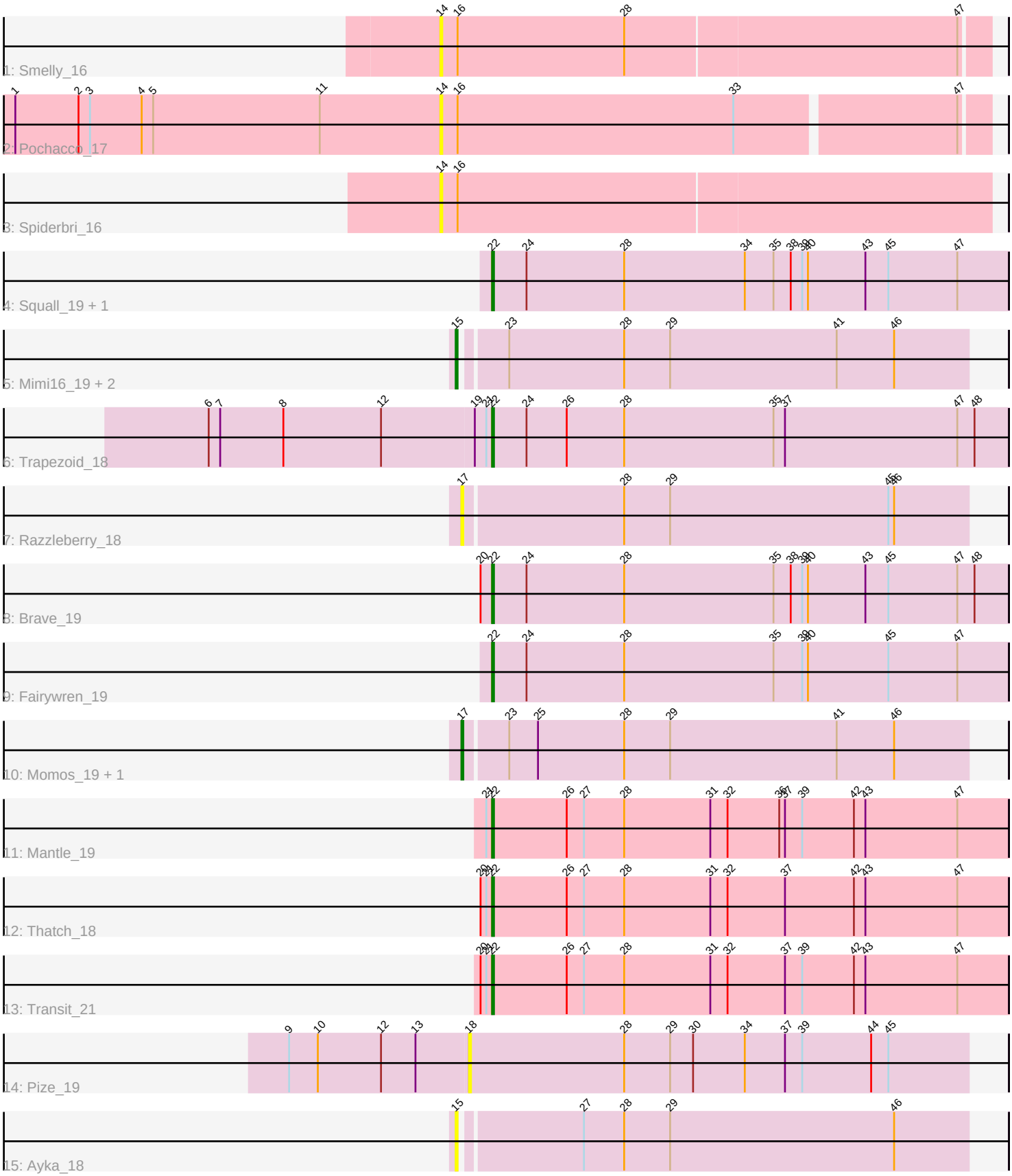
Pham 213040


1: Smelly_16
2: Pochacco_17
3: Spiderbri_16
4: Squall_19 + 1
5: Mimi16_19 + 2
6: Trapezoid_18
7: Razzleberry_18
8: Brave_19
9: Fairywren_19
10: Momos_19 + 1
11: Mantle_19
12: Thatch_18
13: Transit_21
14: Pize_19
15: 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 213040 Report

This analysis was run 02/22/25 on database version 588.

Pham number 213040 has 19 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Smelly_16
• Track 2 : Pochacco_17
• Track 3 : Spiderbri_16
• Track 4 : Squall_19, Penne_19
• Track 5 : Mimi16_19, Prophecy_19, Grotle_19
• Track 6 : Trapezoid_18
• Track 7 : Razzleberry_18
• Track 8 : Brave_19
• Track 9 : Fairywren_19
• Track 10 : Momos_19, Ellison17_19
• Track 11 : Mantle_19
• Track 12 : Thatch_18
• Track 13 : Transit_21
• Track 14 : Pize_19
• Track 15 : 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 22, it was called in 8 of the 13 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:
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Genes that do not have the "Most Annotated" start:
• Ayka_18, Ellison17_19, Grotle_19, Mimi16_19, Momos_19, Pize_19, Pochacco_17, Prophecy_19, Razzleberry_18, Smelly_16, Spiderbri_16,

Summary by start number:

Start 14:
• Found in 3 of 19 (15.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pochacco_17 (GK), Smelly_16 (GK), Spiderbri_16 (GK),

Start 15:
• Found in 4 of 19 (21.1%) of genes in pham
• Manual Annotations of this start: 3 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ayka_18 (UNK), Grotle_19 (JB), Mimi16_19 (JB), Prophecy_19 (JB),

Start 17:
• Found in 3 of 19 (15.8%) of genes in pham
• Manual Annotations of this start: 2 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ellison17_19 (JB), Momos_19 (JB), Razzleberry_18 (JB),

Start 18:
• Found in 1 of 19 (5.3%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pize_19 (UNK),

Start 22:
• Found in 8 of 19 (42.1%) of genes in pham
• Manual Annotations of this start: 8 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Brave_19 (JB), Fairywren_19 (JB), Mantle_19 (JC), Penne_19 (JB), Squall_19 (JB), Thatch_18 (JC), Transit_21 (JC), Trapezoid_18 (JB),

Summary by clusters:

There are 4 clusters represented in this pham: UNK, GK, JB, JC,

Info for manual annotations of cluster JB:
•Start number 15 was manually annotated 3 times for cluster JB.
•Start number 17 was manually annotated 2 times for cluster JB.
•Start number 22 was manually annotated 5 times for cluster JB.

Info for manual annotations of cluster JC:
•Start number 22 was manually annotated 3 times for cluster JC.

Gene Information:

Gene: Ayka_18 Start: 17062, Stop: 17322, Start Num: 15
Candidate Starts for Ayka_18:
(Start: 15 @17062 has 3 MA's), (27, 17122), (28, 17143), (29, 17167), (46, 17284),

Gene: Brave_19 Start: 16494, Stop: 16763, Start Num: 22
Candidate Starts for Brave_19:
(20, 16488), (Start: 22 @16494 has 8 MA's), (24, 16512), (28, 16563), (35, 16641), (38, 16650), (39, 16656), (40, 16659), (43, 16689), (45, 16701), (47, 16737), (48, 16746),

Gene: Ellison17_19 Start: 16885, Stop: 17145, Start Num: 17
Candidate Starts for Ellison17_19:
(Start: 17 @16885 has 2 MA's), (23, 16906), (25, 16921), (28, 16966), (29, 16990), (41, 17077), (46, 17107),

Gene: Fairywren_19 Start: 16442, Stop: 16711, Start Num: 22
Candidate Starts for Fairywren_19:
(Start: 22 @16442 has 8 MA's), (24, 16460), (28, 16511), (35, 16589), (39, 16604), (40, 16607), (45, 16649), (47, 16685),

Gene: Grotle_19 Start: 16841, Stop: 17101, Start Num: 15
Candidate Starts for Grotle_19:
(Start: 15 @16841 has 3 MA's), (23, 16862), (28, 16922), (29, 16946), (41, 17033), (46, 17063),

Gene: Mantle_19 Start: 17905, Stop: 18174, Start Num: 22
Candidate Starts for Mantle_19:
(21, 17902), (Start: 22 @17905 has 8 MA's), (26, 17944), (27, 17953), (28, 17974), (31, 18019), (32, 18028), (36, 18055), (37, 18058), (39, 18067), (42, 18094), (43, 18100), (47, 18148),

Gene: Mimi16_19 Start: 16892, Stop: 17152, Start Num: 15
Candidate Starts for Mimi16_19:
(Start: 15 @16892 has 3 MA's), (23, 16913), (28, 16973), (29, 16997), (41, 17084), (46, 17114),

Gene: Momos_19 Start: 16885, Stop: 17145, Start Num: 17
Candidate Starts for Momos_19:
(Start: 17 @16885 has 2 MA's), (23, 16906), (25, 16921), (28, 16966), (29, 16990), (41, 17077), (46, 17107),

Gene: Penne_19 Start: 16494, Stop: 16763, Start Num: 22
Candidate Starts for Penne_19:
(Start: 22 @16494 has 8 MA's), (24, 16512), (28, 16563), (34, 16626), (35, 16641), (38, 16650), (39, 16656), (40, 16659), (43, 16689), (45, 16701), (47, 16737),

Gene: Pize_19 Start: 16706, Stop: 16966, Start Num: 18
Candidate Starts for Pize_19:
(9, 16613), (10, 16628), (12, 16661), (13, 16679), (18, 16706), (28, 16787), (29, 16811), (30, 16823), (34, 16850), (37, 16871), (39, 16880), (44, 16916), (45, 16925),

Gene: Pochacco_17 Start: 14534, Stop: 14812, Start Num: 14
Candidate Starts for Pochacco_17:
(1, 14312), (2, 14345), (3, 14351), (4, 14378), (5, 14384), (11, 14471), (14, 14534), (16, 14543), (33, 14687), (47, 14798),

Gene: Prophecy_19 Start: 16892, Stop: 17152, Start Num: 15

Candidate Starts for Prophecy_19:
(Start: 15 @16892 has 3 MA's), (23, 16913), (28, 16973), (29, 16997), (41, 17084), (46, 17114),

Gene: Razzleberry_18 Start: 16976, Stop: 17236, Start Num: 17
Candidate Starts for Razzleberry_18:
(Start: 17 @16976 has 2 MA's), (28, 17057), (29, 17081), (45, 17195), (46, 17198),

Gene: Smelly_16 Start: 14230, Stop: 14511, Start Num: 14
Candidate Starts for Smelly_16:
(14, 14230), (16, 14239), (28, 14326), (47, 14497),

Gene: Spiderbri_16 Start: 14458, Stop: 14742, Start Num: 14
Candidate Starts for Spiderbri_16:
(14, 14458), (16, 14467),

Gene: Squall_19 Start: 16464, Stop: 16733, Start Num: 22
Candidate Starts for Squall_19:
(Start: 22 @16464 has 8 MA's), (24, 16482), (28, 16533), (34, 16596), (35, 16611), (38, 16620), (39, 16626), (40, 16629), (43, 16659), (45, 16671), (47, 16707),

Gene: Thatch_18 Start: 17448, Stop: 17717, Start Num: 22
Candidate Starts for Thatch_18:
(20, 17442), (21, 17445), (Start: 22 @17448 has 8 MA's), (26, 17487), (27, 17496), (28, 17517), (31, 17562), (32, 17571), (37, 17601), (42, 17637), (43, 17643), (47, 17691),

Gene: Transit_21 Start: 17942, Stop: 18211, Start Num: 22
Candidate Starts for Transit_21:
(20, 17936), (21, 17939), (Start: 22 @17942 has 8 MA's), (26, 17981), (27, 17990), (28, 18011), (31, 18056), (32, 18065), (37, 18095), (39, 18104), (42, 18131), (43, 18137), (47, 18185),

Gene: Trapezoid_18 Start: 16228, Stop: 16497, Start Num: 22
Candidate Starts for Trapezoid_18:
(6, 16081), (7, 16087), (8, 16120), (12, 16171), (19, 16219), (21, 16225), (Start: 22 @16228 has 8 MA's), (24, 16246), (26, 16267), (28, 16297), (35, 16375), (37, 16381), (47, 16471), (48, 16480),