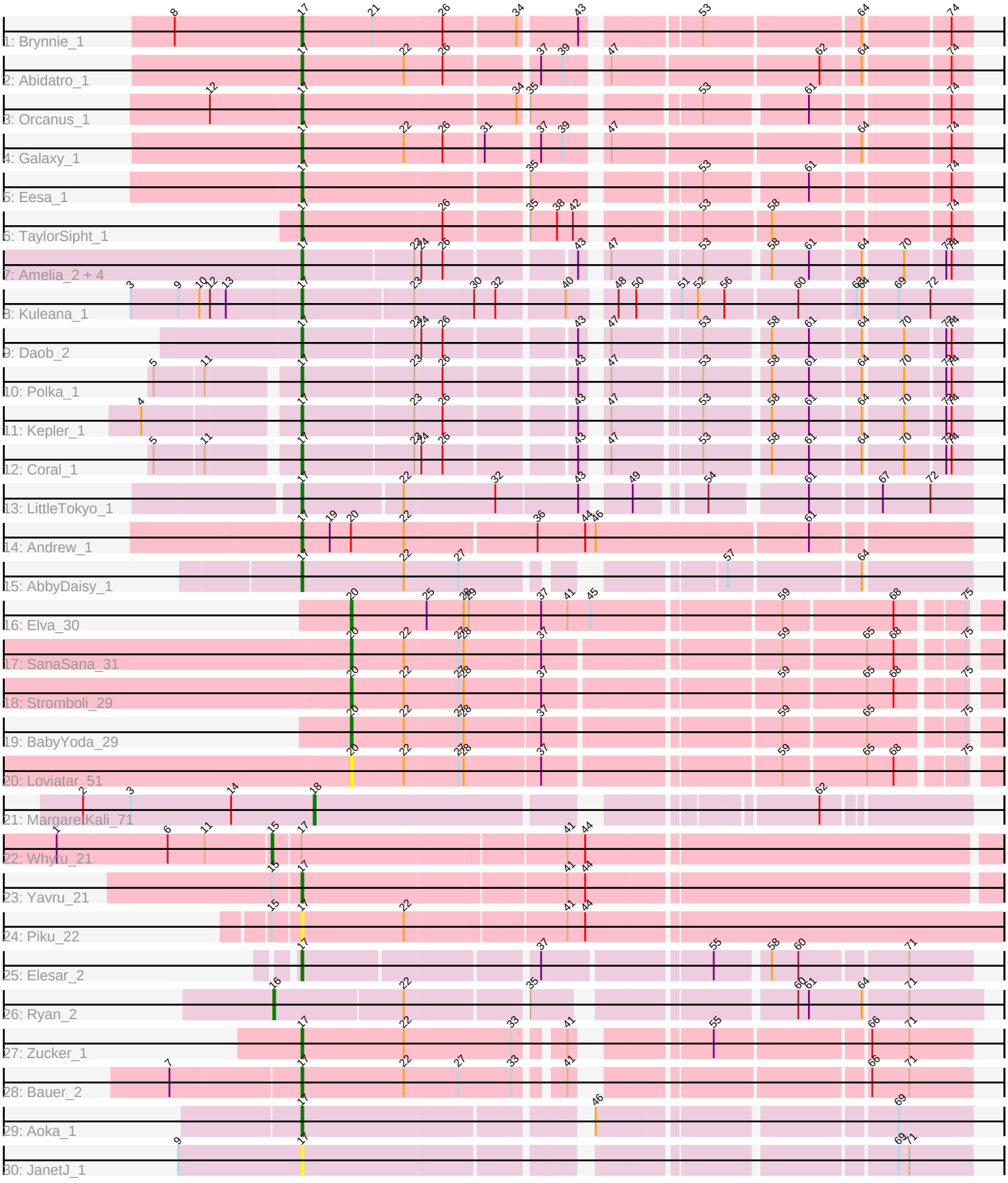
Pham 158053


1: Brynnie_1
2: Abidatro_1
3: Orcanus_1
4: Galaxy_1
5: Eesa_1
6: TaylorSipht_1
7: Amelia_2 + 4
8: Kuleana_1
9: Daob_2
10: Polka_1
11: Kepler_1
12: Coral_1
13: LittleTokyo_1
14: Andrew_1
15: AbbyDaisy_1
16: Elva_30
17: SanaSana_31
18: Stromboli_29
19: BabyYoda_29
20: Loviatar_51
21: MargaretKali_71
22: Whytu_21
23: Yavru_21
24: Piku_22
25: Elesar_2
26: Ryan_2
27: Zucker_1
28: Bauer_2
29: Aoka_1
30: JanetJ_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 158053 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158053 has 34 members, 4 are drafts.

Phages represented in each track:
- Track 1 : Brynnie_1
- Track 2 : Abidatro_1
- Track 3 : Orcanus_1
- Track 4 : Galaxy_1
- Track 5 : Eesa_1
- Track 6 : TaylorSipht_1
- Track 7 : Amelia_2, HannahPhantana_2, Melons_2, Lunar_2, Cote_2
- Track 8 : Kuleana_1
- Track 9 : Daob_2
- Track 10 : Polka_1
- Track 11 : Kepler_1
- Track 12 : Coral_1
- Track 13 : LittleTokyo_1
- Track 14 : Andrew_1
- Track 15 : AbbyDaisy_1
- Track 16 : Elva_30
- Track 17 : SanaSana_31
- Track 18 : Stromboli_29
- Track 19 : BabyYoda_29
- Track 20 : Loviatar_51
- Track 21 : MargaretKali_71
- Track 22 : Whytu_21
- Track 23 : Yavru_21
- Track 24 : Piku_22
- Track 25 : Elesar_2
- Track 26 : Ryan_2
- Track 27 : Zucker_1
- Track 28 : Bauer_2
- Track 29 : Aoka_1
- Track 30 : JanetJ_1

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

The start number called the most often in the published annotations is 17, it was called in 23 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AbbyDaisy_1, Abidatro_1, Amelia_2, Andrew_1, Aoka_1, Bauer_2, Brynnie_1, Coral_1, Cote_2, Daob_2, Eesa_1, Elesar_2, Galaxy_1, HannahPhantana_2, JanetJ_1, Kepler_1, Kuleana_1, LittleTokyo_1, Lunar_2, Melons_2, Orcanus_1, Piku_22, Polka_1, TaylorSipht_1, Yavru_21, Zucker_1,

Genes that have the "Most Annotated" start but do not call it:
• Whytu_21,

Genes that do not have the "Most Annotated" start:
• BabyYoda_29, Elva_30, Loviatar_51, MargaretKali_71, Ryan_2, SanaSana_31, Stromboli_29,

Summary by start number:

Start 15:
• Found in 3 of 34 (8.8%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Whytu_21 (FE),

Start 16:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ryan_2 (FF),

Start 17:
• Found in 27 of 34 (79.4%) of genes in pham
• Manual Annotations of this start: 23 of 30
• Called 96.3% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_1 (AY), Abidatro_1 (AS1), Amelia_2 (AS2), Andrew_1 (AS3), Aoka_1 (FO), Bauer_2 (FN), Brynnie_1 (AS1), Coral_1 (AS2), Cote_2 (AS2), Daob_2 (AS2), Eesa_1 (AS1), Elesar_2 (FF), Galaxy_1 (AS1), HannahPhantana_2 (AS2), JanetJ_1 (FO), Kepler_1 (AS2), Kuleana_1 (AS2), LittleTokyo_1 (AS2), Lunar_2 (AS2), Melons_2 (AS2), Orcanus_1 (AS1), Piku_22 (FE), Polka_1 (AS2), TaylorSipht_1 (AS1), Yavru_21 (FE), Zucker_1 (FN),

Start 18:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MargaretKali_71 (FB),

Start 20:
• Found in 6 of 34 (17.6%) of genes in pham
• Manual Annotations of this start: 4 of 30
• Called 83.3% of time when present

• Phage (with cluster) where this start called: BabyYoda_29 (EB), Elva_30 (EB), Loviatar_51 (EB), SanaSana_31 (EB), Stromboli_29 (EB),

Summary by clusters:

There are 10 clusters represented in this pham: AS3, AS2, AS1, EB, FB, FE, FF, AY, FN, FO,

Info for manual annotations of cluster AS1:
•Start number 17 was manually annotated 6 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 17 was manually annotated 10 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 17 was manually annotated 1 time for cluster AS3.

Info for manual annotations of cluster AY:
•Start number 17 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster EB:
•Start number 20 was manually annotated 4 times for cluster EB.

Info for manual annotations of cluster FB:
•Start number 18 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster FE:
•Start number 15 was manually annotated 1 time for cluster FE.
•Start number 17 was manually annotated 1 time for cluster FE.

Info for manual annotations of cluster FF:
•Start number 16 was manually annotated 1 time for cluster FF.
•Start number 17 was manually annotated 1 time for cluster FF.

Info for manual annotations of cluster FN:
•Start number 17 was manually annotated 2 times for cluster FN.

Info for manual annotations of cluster FO:
•Start number 17 was manually annotated 1 time for cluster FO.

Gene Information:

Gene: AbbyDaisy_1 Start: 69, Stop: 401, Start Num: 17
Candidate Starts for AbbyDaisy_1:
(Start: 17 @69 has 23 MA's), (22, 126), (27, 156), (57, 273), (64, 342),

Gene: Abidatro_1 Start: 98, Stop: 442, Start Num: 17
Candidate Starts for Abidatro_1:
(Start: 17 @98 has 23 MA's), (22, 155), (26, 176), (37, 224), (39, 236), (47, 254), (62, 365), (64, 386), (74, 431),

Gene: Amelia_2 Start: 264, Stop: 596, Start Num: 17
Candidate Starts for Amelia_2:
(Start: 17 @264 has 23 MA's), (23, 324), (24, 327), (26, 339), (43, 405), (47, 414), (53, 459), (58, 492), (61, 513), (64, 540), (70, 561), (73, 582), (74, 585),

Gene: Andrew_1 Start: 98, Stop: 463, Start Num: 17
Candidate Starts for Andrew_1:
(Start: 17 @98 has 23 MA's), (19, 113), (Start: 20 @125 has 4 MA's), (22, 155), (36, 227), (44, 254), (46, 260), (61, 377),

Gene: Aoka_1 Start: 69, Stop: 407, Start Num: 17
Candidate Starts for Aoka_1:
(Start: 17 @69 has 23 MA's), (46, 213), (69, 366),

Gene: BabyYoda_29 Start: 22760, Stop: 23095, Start Num: 20
Candidate Starts for BabyYoda_29:
(Start: 20 @22760 has 4 MA's), (22, 22790), (27, 22820), (28, 22823), (37, 22865), (59, 22988), (65, 23033), (75, 23081),

Gene: Bauer_2 Start: 736, Stop: 1071, Start Num: 17
Candidate Starts for Bauer_2:
(7, 664), (Start: 17 @736 has 23 MA's), (22, 793), (27, 823), (33, 853), (41, 874), (66, 1015), (71, 1036),

Gene: Brynnie_1 Start: 98, Stop: 439, Start Num: 17
Candidate Starts for Brynnie_1:
(8, 26), (Start: 17 @98 has 23 MA's), (21, 137), (26, 176), (34, 215), (43, 245), (53, 299), (64, 383), (74, 428),

Gene: Coral_1 Start: 100, Stop: 432, Start Num: 17
Candidate Starts for Coral_1:
(5, 28), (11, 55), (Start: 17 @100 has 23 MA's), (23, 160), (24, 163), (26, 175), (43, 241), (47, 250), (53, 295), (58, 328), (61, 349), (64, 376), (70, 397), (73, 418), (74, 421),

Gene: Cote_2 Start: 264, Stop: 596, Start Num: 17
Candidate Starts for Cote_2:
(Start: 17 @264 has 23 MA's), (23, 324), (24, 327), (26, 339), (43, 405), (47, 414), (53, 459), (58, 492), (61, 513), (64, 540), (70, 561), (73, 582), (74, 585),

Gene: Daob_2 Start: 264, Stop: 596, Start Num: 17
Candidate Starts for Daob_2:
(Start: 17 @264 has 23 MA's), (23, 324), (24, 327), (26, 339), (43, 405), (47, 414), (53, 459), (58, 492), (61, 513), (64, 540), (70, 561), (73, 582), (74, 585),

Gene: Eesa_1 Start: 97, Stop: 435, Start Num: 17
Candidate Starts for Eesa_1:
(Start: 17 @97 has 23 MA's), (35, 217), (53, 298), (61, 352), (74, 424),

Gene: Elesar_2 Start: 346, Stop: 690, Start Num: 17
Candidate Starts for Elesar_2:
(Start: 17 @346 has 23 MA's), (37, 469), (55, 556), (58, 583), (60, 598), (71, 655),

Gene: Elva_30 Start: 22711, Stop: 23049, Start Num: 20

Candidate Starts for Elva_30:
(Start: 20 @22711 has 4 MA's), (25, 22753), (28, 22774), (29, 22777), (37, 22816), (41, 22831), (45, 22843), (59, 22942), (68, 23002), (75, 23035),

Gene: Galaxy_1 Start: 98, Stop: 442, Start Num: 17
Candidate Starts for Galaxy_1:
(Start: 17 @98 has 23 MA's), (22, 155), (26, 176), (31, 197), (37, 224), (39, 236), (47, 254), (64, 386), (74, 431),

Gene: HannahPhantana_2 Start: 264, Stop: 596, Start Num: 17
Candidate Starts for HannahPhantana_2:
(Start: 17 @264 has 23 MA's), (23, 324), (24, 327), (26, 339), (43, 405), (47, 414), (53, 459), (58, 492), (61, 513), (64, 540), (70, 561), (73, 582), (74, 585),

Gene: JanetJ_1 Start: 70, Stop: 408, Start Num: 17
Candidate Starts for JanetJ_1:
(9, 1), (Start: 17 @70 has 23 MA's), (69, 367), (71, 373),

Gene: Kepler_1 Start: 99, Stop: 431, Start Num: 17
Candidate Starts for Kepler_1:
(4, 21), (Start: 17 @99 has 23 MA's), (23, 159), (26, 174), (43, 240), (47, 249), (53, 294), (58, 327), (61, 348), (64, 375), (70, 396), (73, 417), (74, 420),

Gene: Kuleana_1 Start: 97, Stop: 444, Start Num: 17
Candidate Starts for Kuleana_1:
(3, 1), (9, 28), (10, 40), (12, 46), (13, 55), (Start: 17 @97 has 23 MA's), (23, 157), (30, 190), (32, 202), (40, 238), (48, 259), (50, 268), (51, 289), (52, 298), (56, 313), (60, 352), (63, 382), (64, 385), (69, 403), (72, 421),

Gene: LittleTokyo_1 Start: 92, Stop: 430, Start Num: 17
Candidate Starts for LittleTokyo_1:
(Start: 17 @92 has 23 MA's), (22, 146), (32, 197), (43, 242), (49, 263), (54, 296), (61, 344), (67, 380), (72, 407),

Gene: Loviatar_51 Start: 23573, Stop: 23908, Start Num: 20
Candidate Starts for Loviatar_51:
(Start: 20 @23573 has 4 MA's), (22, 23603), (27, 23633), (28, 23636), (37, 23678), (59, 23801), (65, 23846), (68, 23861), (75, 23894),

Gene: Lunar_2 Start: 264, Stop: 596, Start Num: 17
Candidate Starts for Lunar_2:
(Start: 17 @264 has 23 MA's), (23, 324), (24, 327), (26, 339), (43, 405), (47, 414), (53, 459), (58, 492), (61, 513), (64, 540), (70, 561), (73, 582), (74, 585),

Gene: MargaretKali_71 Start: 38297, Stop: 38623, Start Num: 18
Candidate Starts for MargaretKali_71:
(2, 38168), (3, 38195), (14, 38252), (Start: 18 @38297 has 1 MA's), (62, 38546),

Gene: Melons_2 Start: 264, Stop: 596, Start Num: 17
Candidate Starts for Melons_2:
(Start: 17 @264 has 23 MA's), (23, 324), (24, 327), (26, 339), (43, 405), (47, 414), (53, 459), (58, 492), (61, 513), (64, 540), (70, 561), (73, 582), (74, 585),

Gene: Orcanus_1 Start: 97, Stop: 435, Start Num: 17
Candidate Starts for Orcanus_1:
(12, 46), (Start: 17 @97 has 23 MA's), (34, 214), (35, 217), (53, 298), (61, 352), (74, 424),

Gene: Piku_22 Start: 15071, Stop: 15454, Start Num: 17
Candidate Starts for Piku_22:
(Start: 15 @15056 has 1 MA's), (Start: 17 @15071 has 23 MA's), (22, 15128), (41, 15215), (44, 15224),

Gene: Polka_1 Start: 100, Stop: 432, Start Num: 17
Candidate Starts for Polka_1:
(5, 28), (11, 55), (Start: 17 @100 has 23 MA's), (23, 160), (26, 175), (43, 241), (47, 250), (53, 295), (58, 328), (61, 349), (64, 376), (70, 397), (73, 418), (74, 421),

Gene: Ryan_2 Start: 306, Stop: 668, Start Num: 16
Candidate Starts for Ryan_2:
(Start: 16 @306 has 1 MA's), (22, 378), (35, 441), (60, 567), (61, 573), (64, 603), (71, 627),

Gene: SanaSana_31 Start: 23223, Stop: 23558, Start Num: 20
Candidate Starts for SanaSana_31:
(Start: 20 @23223 has 4 MA's), (22, 23253), (27, 23283), (28, 23286), (37, 23328), (59, 23451), (65, 23496), (68, 23511), (75, 23544),

Gene: Stromboli_29 Start: 22757, Stop: 23092, Start Num: 20
Candidate Starts for Stromboli_29:
(Start: 20 @22757 has 4 MA's), (22, 22787), (27, 22817), (28, 22820), (37, 22862), (59, 22985), (65, 23030), (68, 23045), (75, 23078),

Gene: TaylorSipht_1 Start: 118, Stop: 459, Start Num: 17
Candidate Starts for TaylorSipht_1:
(Start: 17 @118 has 23 MA's), (26, 196), (35, 238), (38, 253), (42, 262), (53, 319), (58, 355), (74, 448),

Gene: Whytu_21 Start: 14626, Stop: 15018, Start Num: 15
Candidate Starts for Whytu_21:
(1, 14506), (6, 14569), (11, 14590), (Start: 15 @14626 has 1 MA's), (Start: 17 @14641 has 23 MA's), (41, 14785), (44, 14794),

Gene: Yavru_21 Start: 14451, Stop: 14828, Start Num: 17
Candidate Starts for Yavru_21:
(Start: 15 @14436 has 1 MA's), (Start: 17 @14451 has 23 MA's), (41, 14595), (44, 14604),

Gene: Zucker_1 Start: 39, Stop: 374, Start Num: 17
Candidate Starts for Zucker_1:
(Start: 17 @39 has 23 MA's), (22, 96), (33, 156), (41, 177), (55, 237), (66, 318), (71, 339),