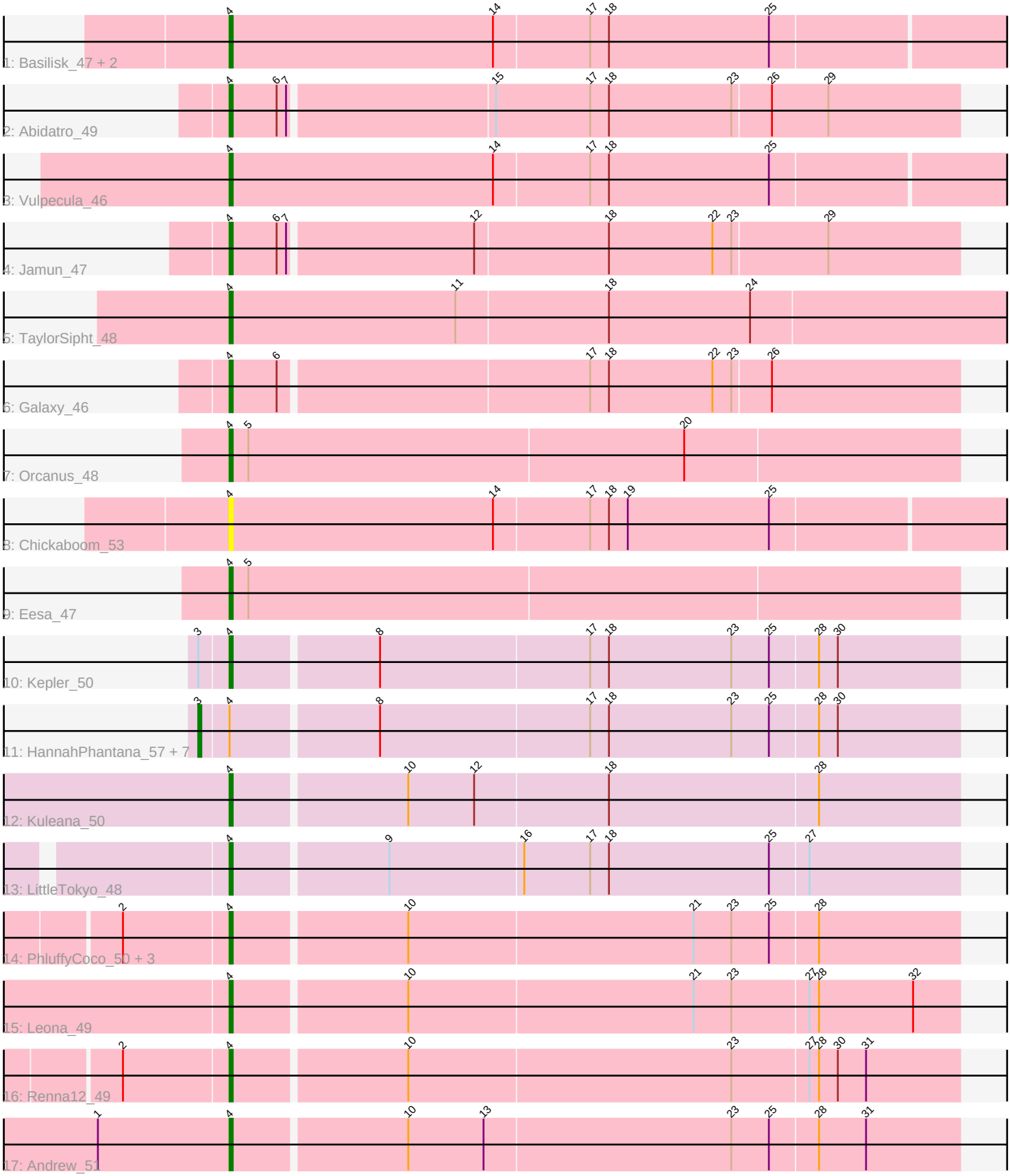
Pham 3584


1: Basilisk_47 + 2
4 14 17 18 25
2: Abidatro_49
4 6 7 15 17 18 23 26 29
3: Vulpecula_46
4 14 17 18 25
4: Jamun_47
4 6 7 12 18 22 23 29
5: TaylorSipht_48
4 11 18 24
6: Galaxy_46
4 6 17 18 22 23 26
7: Orcanus_48
4 5 20
8: Chickaboom_53
4 14 17 18 19 25
9: Eesa_47
4 5
10: Kepler_50
3 4 8 17 18 23 25 28 30
11: HannahPhantana_57 + 7
3 4 8 17 18 23 25 28 30
12: Kuleana_50
4 10 12 18 28
13: LittleTokyo_48
4 9 16 17 18 25 27
14: PhluffyCoco_50 + 3
2 4 10 21 23 25 28
15: Leona_49
4 10 21 23 27 28 32
16: Renna12_49
2 4 10 23 27 28 30 31
17: Andrew_51
1 4 10 13 23 25 28 31

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 3584 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3584 has 29 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Basilisk_47, Ruchi_46, Brynnie_46
• Track 2 : Abidatro_49
• Track 3 : Vulpecula_46
• Track 4 : Jamun_47
• Track 5 : TaylorSipht_48
• Track 6 : Galaxy_46
• Track 7 : Orcanus_48
• Track 8 : Chickaboom_53
• Track 9 : Eesa_47
• Track 10 : Kepler_50
• Track 11 : HannahPhantana_57, Cote_51, Melons_50, Amelia_49, Lunar_50, Coral_49, Daob_51, Polka_49
• Track 12 : Kuleana_50
• Track 13 : LittleTokyo_48
• Track 14 : PhluffyCoco_50, Juno112_50, RedFox_50, KHumphrey_49
• Track 15 : Leona_49
• Track 16 : Renna12_49
• Track 17 : Andrew_51

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

The start number called the most often in the published annotations is 4, it was called in 17 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abidatro_49, Andrew_51, Basilisk_47, Brynnie_46, Chickaboom_53, Eesa_47, Galaxy_46, Jamun_47, Juno112_50, KHumphrey_49, Kepler_50, Kuleana_50, Leona_49, LittleTokyo_48, Orcanus_48, PhluffyCoco_50, RedFox_50, Renna12_49, Ruchi_46, TaylorSipht_48, Vulpecula_46,

Genes that have the "Most Annotated" start but do not call it:
• Amelia_49, Coral_49, Cote_51, Daob_51, HannahPhantana_57, Lunar_50, Melons_50, Polka_49,

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

Summary by start number:

Start 3:
• Found in 9 of 29 (31.0%) of genes in pham
• Manual Annotations of this start: 7 of 24
• Called 88.9% of time when present
• Phage (with cluster) where this start called: Amelia_49 (AS2), Coral_49 (AS2), Cote_51 (AS2), Daob_51 (AS2), HannahPhantana_57 (AS2), Lunar_50 (AS2), Melons_50 (AS2), Polka_49 (AS2),

Start 4:
• Found in 29 of 29 (100.0%) of genes in pham
• Manual Annotations of this start: 17 of 24
• Called 72.4% of time when present
• Phage (with cluster) where this start called: Abidatro_49 (AS1), Andrew_51 (AS3), Basilisk_47 (AS1), Brynnie_46 (AS1), Chickaboom_53 (AS1), Eesa_47 (AS1), Galaxy_46 (AS1), Jamun_47 (AS1), Juno112_50 (AS3), KHumphrey_49 (AS3), Kepler_50 (AS2), Kuleana_50 (AS2), Leona_49 (AS3), LittleTokyo_48 (AS2), Orcanus_48 (AS1), PhluffyCoco_50 (AS3), RedFox_50 (AS3), Renna12_49 (AS3), Ruchi_46 (AS1), TaylorSipht_48 (AS1), Vulpecula_46 (AS1),

Summary by clusters:

There are 3 clusters represented in this pham: AS3, AS2, AS1,

Info for manual annotations of cluster AS1:
•Start number 4 was manually annotated 10 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 3 was manually annotated 7 times for cluster AS2.
•Start number 4 was manually annotated 3 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 4 was manually annotated 4 times for cluster AS3.

Gene Information:

Gene: Abidatro_49 Start: 32803, Stop: 33030, Start Num: 4
Candidate Starts for Abidatro_49:
(Start: 4 @32803 has 17 MA's), (6, 32818), (7, 32821), (15, 32884), (17, 32914), (18, 32920), (23, 32959), (26, 32971), (29, 32989),

Gene: Amelia_49 Start: 31749, Stop: 31985, Start Num: 3
Candidate Starts for Amelia_49:
(Start: 3 @31749 has 7 MA's), (Start: 4 @31758 has 17 MA's), (8, 31803), (17, 31869), (18, 31875), (23, 31914), (25, 31926), (28, 31941), (30, 31947),

Gene: Andrew_51 Start: 32084, Stop: 32311, Start Num: 4

Candidate Starts for Andrew_51:
(1, 32042), (Start: 4 @32084 has 17 MA's), (10, 32138), (13, 32162), (23, 32240), (25, 32252), (28, 32267), (31, 32282),

Gene: Basilisk_47 Start: 32013, Stop: 32288, Start Num: 4
Candidate Starts for Basilisk_47:
(Start: 4 @32013 has 17 MA's), (14, 32097), (17, 32127), (18, 32133), (25, 32184),

Gene: Brynnie_46 Start: 31870, Stop: 32145, Start Num: 4
Candidate Starts for Brynnie_46:
(Start: 4 @31870 has 17 MA's), (14, 31954), (17, 31984), (18, 31990), (25, 32041),

Gene: Chickaboom_53 Start: 32597, Stop: 32872, Start Num: 4
Candidate Starts for Chickaboom_53:
(Start: 4 @32597 has 17 MA's), (14, 32681), (17, 32711), (18, 32717), (19, 32723), (25, 32768),

Gene: Coral_49 Start: 31617, Stop: 31853, Start Num: 3
Candidate Starts for Coral_49:
(Start: 3 @31617 has 7 MA's), (Start: 4 @31626 has 17 MA's), (8, 31671), (17, 31737), (18, 31743), (23, 31782), (25, 31794), (28, 31809), (30, 31815),

Gene: Cote_51 Start: 32090, Stop: 32326, Start Num: 3
Candidate Starts for Cote_51:
(Start: 3 @32090 has 7 MA's), (Start: 4 @32099 has 17 MA's), (8, 32144), (17, 32210), (18, 32216), (23, 32255), (25, 32267), (28, 32282), (30, 32288),

Gene: Daob_51 Start: 32101, Stop: 32337, Start Num: 3
Candidate Starts for Daob_51:
(Start: 3 @32101 has 7 MA's), (Start: 4 @32110 has 17 MA's), (8, 32155), (17, 32221), (18, 32227), (23, 32266), (25, 32278), (28, 32293), (30, 32299),

Gene: Eesa_47 Start: 33425, Stop: 33655, Start Num: 4
Candidate Starts for Eesa_47:
(Start: 4 @33425 has 17 MA's), (5, 33431),

Gene: Galaxy_46 Start: 31218, Stop: 31445, Start Num: 4
Candidate Starts for Galaxy_46:
(Start: 4 @31218 has 17 MA's), (6, 31233), (17, 31329), (18, 31335), (22, 31368), (23, 31374), (26, 31386),

Gene: HannahPhantana_57 Start: 31744, Stop: 31980, Start Num: 3
Candidate Starts for HannahPhantana_57:
(Start: 3 @31744 has 7 MA's), (Start: 4 @31753 has 17 MA's), (8, 31798), (17, 31864), (18, 31870), (23, 31909), (25, 31921), (28, 31936), (30, 31942),

Gene: Jamun_47 Start: 32737, Stop: 32964, Start Num: 4
Candidate Starts for Jamun_47:
(Start: 4 @32737 has 17 MA's), (6, 32752), (7, 32755), (12, 32812), (18, 32854), (22, 32887), (23, 32893), (29, 32923),

Gene: Juno112_50 Start: 32192, Stop: 32419, Start Num: 4
Candidate Starts for Juno112_50:

(2, 32159), (Start: 4 @32192 has 17 MA's), (10, 32246), (21, 32336), (23, 32348), (25, 32360), (28, 32375),

Gene: KHumphrey_49 Start: 32080, Stop: 32307, Start Num: 4
Candidate Starts for KHumphrey_49:
(2, 32047), (Start: 4 @32080 has 17 MA's), (10, 32134), (21, 32224), (23, 32236), (25, 32248), (28, 32263),

Gene: Kepler_50 Start: 31874, Stop: 32101, Start Num: 4
Candidate Starts for Kepler_50:
(Start: 3 @31865 has 7 MA's), (Start: 4 @31874 has 17 MA's), (8, 31919), (17, 31985), (18, 31991), (23, 32030), (25, 32042), (28, 32057), (30, 32063),

Gene: Kuleana_50 Start: 31449, Stop: 31676, Start Num: 4
Candidate Starts for Kuleana_50:
(Start: 4 @31449 has 17 MA's), (10, 31503), (12, 31524), (18, 31566), (28, 31632),

Gene: Leona_49 Start: 32271, Stop: 32498, Start Num: 4
Candidate Starts for Leona_49:
(Start: 4 @32271 has 17 MA's), (10, 32325), (21, 32415), (23, 32427), (27, 32451), (28, 32454), (32, 32484),

Gene: LittleTokyo_48 Start: 30898, Stop: 31125, Start Num: 4
Candidate Starts for LittleTokyo_48:
(Start: 4 @30898 has 17 MA's), (9, 30946), (16, 30988), (17, 31009), (18, 31015), (25, 31066), (27, 31078),

Gene: Lunar_50 Start: 31780, Stop: 32016, Start Num: 3
Candidate Starts for Lunar_50:
(Start: 3 @31780 has 7 MA's), (Start: 4 @31789 has 17 MA's), (8, 31834), (17, 31900), (18, 31906), (23, 31945), (25, 31957), (28, 31972), (30, 31978),

Gene: Melons_50 Start: 31594, Stop: 31830, Start Num: 3
Candidate Starts for Melons_50:
(Start: 3 @31594 has 7 MA's), (Start: 4 @31603 has 17 MA's), (8, 31648), (17, 31714), (18, 31720), (23, 31759), (25, 31771), (28, 31786), (30, 31792),

Gene: Orcanus_48 Start: 33084, Stop: 33314, Start Num: 4
Candidate Starts for Orcanus_48:
(Start: 4 @33084 has 17 MA's), (5, 33090), (20, 33228),

Gene: PhluffyCoco_50 Start: 32290, Stop: 32517, Start Num: 4
Candidate Starts for PhluffyCoco_50:
(2, 32257), (Start: 4 @32290 has 17 MA's), (10, 32344), (21, 32434), (23, 32446), (25, 32458), (28, 32473),

Gene: Polka_49 Start: 31598, Stop: 31834, Start Num: 3
Candidate Starts for Polka_49:
(Start: 3 @31598 has 7 MA's), (Start: 4 @31607 has 17 MA's), (8, 31652), (17, 31718), (18, 31724), (23, 31763), (25, 31775), (28, 31790), (30, 31796),

Gene: RedFox_50 Start: 32289, Stop: 32516, Start Num: 4
Candidate Starts for RedFox_50:

(2, 32256), (Start: 4 @32289 has 17 MA's), (10, 32343), (21, 32433), (23, 32445), (25, 32457), (28, 32472),

Gene: Renna12_49 Start: 32142, Stop: 32369, Start Num: 4
Candidate Starts for Renna12_49:
(2, 32109), (Start: 4 @32142 has 17 MA's), (10, 32196), (23, 32298), (27, 32322), (28, 32325), (30, 32331), (31, 32340),

Gene: Ruchi_46 Start: 31935, Stop: 32210, Start Num: 4
Candidate Starts for Ruchi_46:
(Start: 4 @31935 has 17 MA's), (14, 32019), (17, 32049), (18, 32055), (25, 32106),

Gene: TaylorSipht_48 Start: 32577, Stop: 32858, Start Num: 4
Candidate Starts for TaylorSipht_48:
(Start: 4 @32577 has 17 MA's), (11, 32649), (18, 32697), (24, 32742),

Gene: Vulpecula_46 Start: 31595, Stop: 31870, Start Num: 4
Candidate Starts for Vulpecula_46:
(Start: 4 @31595 has 17 MA's), (14, 31679), (17, 31709), (18, 31715), (25, 31766),