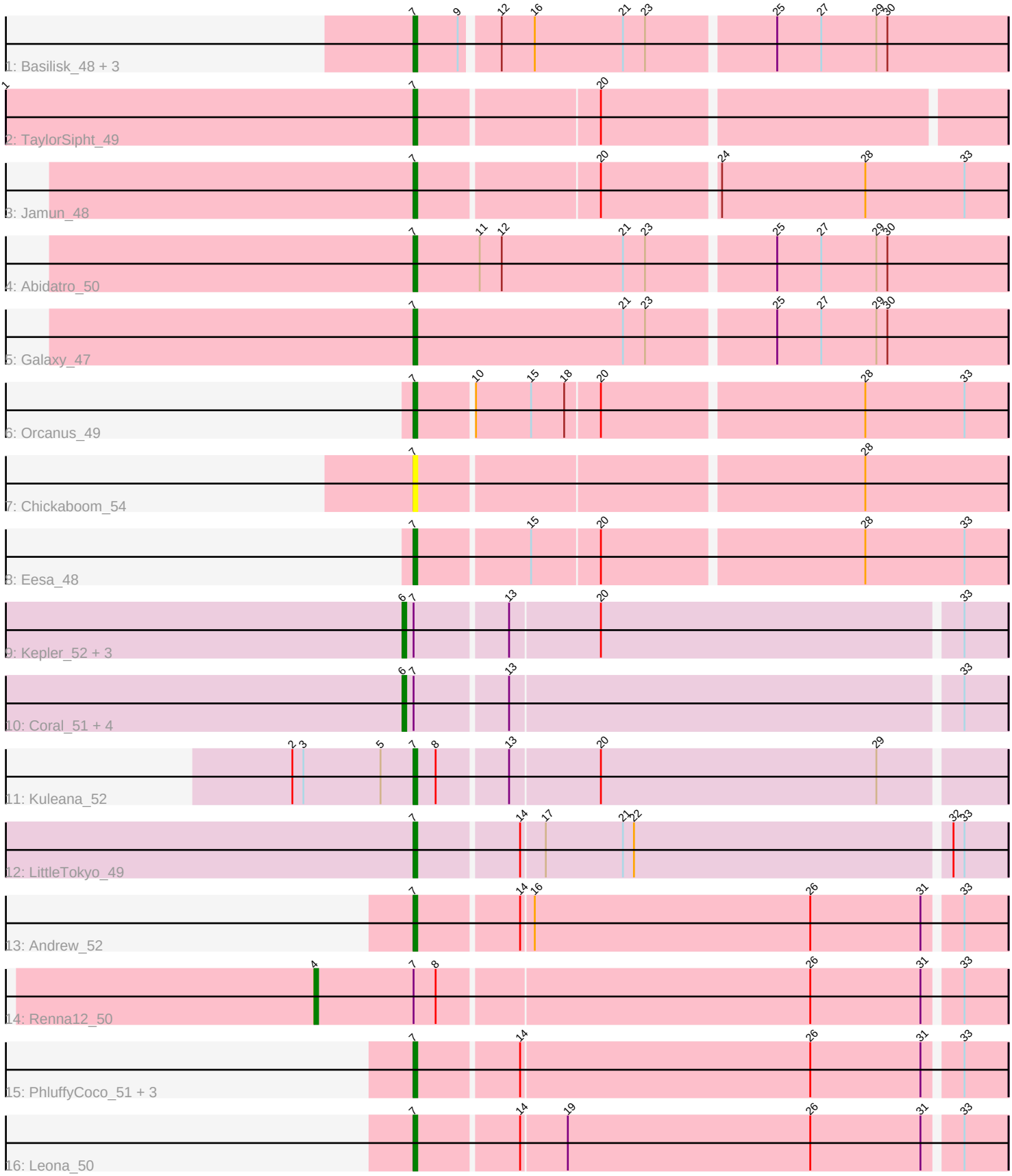
Pham 3494


1: Basilisk_48 + 3
7 9 12 16 21 23 25 27 29 30
2: TaylorSipht_49
1 7 20
3: Jamun_48
7 20 24 28 33
4: Abidatro_50
7 11 12 21 23 25 27 29 30
5: Galaxy_47
7 21 23 25 27 29 30
6: Orcanus_49
7 10 15 18 20 28 33
7: Chickaboom_54
7 28
8: Eesa_48
7 15 20 28 33
9: Kepler_52 + 3
6 7 13 20 33
10: Coral_51 + 4
6 7 13 33
11: Kuleana_52
2 3 5 7 8 13 20 29
12: LittleTokyo_49
7 14 17 21 22 32 33
13: Andrew_52
7 14 16 26 31 33
14: Renna12_50
4 7 8 26 31 33
15: PhluffyCoco_51 + 3
7 14 26 31 33
16: Leona_50
7 14 19 26 31 33

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 3494 Report

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

Pham number 3494 has 29 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Basilisk_48, Vulpecula_47, Brynnie_47, Ruchi_47
• Track 2 : TaylorSipht_49
• Track 3 : Jamun_48
• Track 4 : Abidatro_50
• Track 5 : Galaxy_47
• Track 6 : Orcanus_49
• Track 7 : Chickaboom_54
• Track 8 : Eesa_48
• Track 9 : Kepler_52, Amelia_51, HannahPhantana_59, Polka_51
• Track 10 : Coral_51, Melons_52, Cote_53, Lunar_52, Daob_53
• Track 11 : Kuleana_52
• Track 12 : LittleTokyo_49
• Track 13 : Andrew_52
• Track 14 : Renna12_50
• Track 15 : PhluffyCoco_51, Juno112_51, KHumphrey_50, RedFox_51
• Track 16 : Leona_50

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

The start number called the most often in the published annotations is 7, it was called in 15 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abidatro_50, Andrew_52, Basilisk_48, Brynnie_47, Chickaboom_54, Eesa_48, Galaxy_47, Jamun_48, Juno112_51, KHumphrey_50, Kuleana_52, Leona_50, LittleTokyo_49, Orcanus_49, PhluffyCoco_51, RedFox_51, Ruchi_47, TaylorSipht_49, Vulpecula_47,

Genes that have the "Most Annotated" start but do not call it:
• Amelia_51, Coral_51, Cote_53, Daob_53, HannahPhantana_59, Kepler_52, Lunar_52, Melons_52, Polka_51, Renna12_50,

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

Summary by start number:

Start 4:
• Found in 1 of 29 (3.4%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Renna12_50 (AS3),

Start 6:
• Found in 9 of 29 (31.0%) of genes in pham
• Manual Annotations of this start: 8 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelia_51 (AS2), Coral_51 (AS2), Cote_53 (AS2), Daob_53 (AS2), HannahPhantana_59 (AS2), Kepler_52 (AS2), Lunar_52 (AS2), Melons_52 (AS2), Polka_51 (AS2),

Start 7:
• Found in 29 of 29 (100.0%) of genes in pham
• Manual Annotations of this start: 15 of 24
• Called 65.5% of time when present
• Phage (with cluster) where this start called: Abidatro_50 (AS1), Andrew_52 (AS3), Basilisk_48 (AS1), Brynnie_47 (AS1), Chickaboom_54 (AS1), Eesa_48 (AS1), Galaxy_47 (AS1), Jamun_48 (AS1), Juno112_51 (AS3), KHumphrey_50 (AS3), Kuleana_52 (AS2), Leona_50 (AS3), LittleTokyo_49 (AS2), Orcanus_49 (AS1), PhluffyCoco_51 (AS3), RedFox_51 (AS3), Ruchi_47 (AS1), TaylorSipht_49 (AS1), Vulpecula_47 (AS1),

Summary by clusters:

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

Info for manual annotations of cluster AS1:
•Start number 7 was manually annotated 10 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 6 was manually annotated 8 times for cluster AS2.
•Start number 7 was manually annotated 2 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 4 was manually annotated 1 time for cluster AS3.
•Start number 7 was manually annotated 3 times for cluster AS3.

Gene Information:

Gene: Abidatro_50 Start: 33130, Stop: 33288, Start Num: 7
Candidate Starts for Abidatro_50:
(Start: 7 @33130 has 15 MA's), (11, 33148), (12, 33154), (21, 33187), (23, 33193), (25, 33226), (27, 33238), (29, 33253), (30, 33256),

Gene: Amelia_51 Start: 32273, Stop: 32431, Start Num: 6

Candidate Starts for Amelia_51:
(Start: 6 @32273 has 8 MA's), (Start: 7 @32276 has 15 MA's), (13, 32300), (20, 32324), (33, 32420),

Gene: Andrew_52 Start: 32377, Stop: 32532, Start Num: 7
Candidate Starts for Andrew_52:
(Start: 7 @32377 has 15 MA's), (14, 32404), (16, 32407), (26, 32482), (31, 32512), (33, 32521),

Gene: Basilisk_48 Start: 32353, Stop: 32508, Start Num: 7
Candidate Starts for Basilisk_48:
(Start: 7 @32353 has 15 MA's), (9, 32365), (12, 32374), (16, 32383), (21, 32407), (23, 32413), (25, 32446), (27, 32458), (29, 32473), (30, 32476),

Gene: Brynnie_47 Start: 32210, Stop: 32365, Start Num: 7
Candidate Starts for Brynnie_47:
(Start: 7 @32210 has 15 MA's), (9, 32222), (12, 32231), (16, 32240), (21, 32264), (23, 32270), (25, 32303), (27, 32315), (29, 32330), (30, 32333),

Gene: Chickaboom_54 Start: 32937, Stop: 33092, Start Num: 7
Candidate Starts for Chickaboom_54:
(Start: 7 @32937 has 15 MA's), (28, 33054),

Gene: Coral_51 Start: 32141, Stop: 32299, Start Num: 6
Candidate Starts for Coral_51:
(Start: 6 @32141 has 8 MA's), (Start: 7 @32144 has 15 MA's), (13, 32168), (33, 32288),

Gene: Cote_53 Start: 32614, Stop: 32772, Start Num: 6
Candidate Starts for Cote_53:
(Start: 6 @32614 has 8 MA's), (Start: 7 @32617 has 15 MA's), (13, 32641), (33, 32761),

Gene: Daob_53 Start: 32625, Stop: 32783, Start Num: 6
Candidate Starts for Daob_53:
(Start: 6 @32625 has 8 MA's), (Start: 7 @32628 has 15 MA's), (13, 32652), (33, 32772),

Gene: Eesa_48 Start: 33721, Stop: 33876, Start Num: 7
Candidate Starts for Eesa_48:
(Start: 7 @33721 has 15 MA's), (15, 33751), (20, 33769), (28, 33838), (33, 33865),

Gene: Galaxy_47 Start: 31545, Stop: 31703, Start Num: 7
Candidate Starts for Galaxy_47:
(Start: 7 @31545 has 15 MA's), (21, 31602), (23, 31608), (25, 31641), (27, 31653), (29, 31668), (30, 31671),

Gene: HannahPhantana_59 Start: 32268, Stop: 32426, Start Num: 6
Candidate Starts for HannahPhantana_59:
(Start: 6 @32268 has 8 MA's), (Start: 7 @32271 has 15 MA's), (13, 32295), (20, 32319), (33, 32415),

Gene: Jamun_48 Start: 33064, Stop: 33219, Start Num: 7
Candidate Starts for Jamun_48:
(Start: 7 @33064 has 15 MA's), (20, 33112), (24, 33142), (28, 33181), (33, 33208),

Gene: Juno112_51 Start: 32484, Stop: 32639, Start Num: 7
Candidate Starts for Juno112_51:
(Start: 7 @32484 has 15 MA's), (14, 32511), (26, 32589), (31, 32619), (33, 32628),

Gene: KHumphrey_50 Start: 32372, Stop: 32527, Start Num: 7
Candidate Starts for KHumphrey_50:
(Start: 7 @32372 has 15 MA's), (14, 32399), (26, 32477), (31, 32507), (33, 32516),

Gene: Kepler_52 Start: 32389, Stop: 32547, Start Num: 6
Candidate Starts for Kepler_52:
(Start: 6 @32389 has 8 MA's), (Start: 7 @32392 has 15 MA's), (13, 32416), (20, 32440), (33, 32536),

Gene: Kuleana_52 Start: 31966, Stop: 32121, Start Num: 7
Candidate Starts for Kuleana_52:
(2, 31933), (3, 31936), (5, 31957), (Start: 7 @31966 has 15 MA's), (8, 31972), (13, 31990), (20, 32014), (29, 32089),

Gene: Leona_50 Start: 32563, Stop: 32718, Start Num: 7
Candidate Starts for Leona_50:
(Start: 7 @32563 has 15 MA's), (14, 32590), (19, 32602), (26, 32668), (31, 32698), (33, 32707),

Gene: LittleTokyo_49 Start: 31188, Stop: 31343, Start Num: 7
Candidate Starts for LittleTokyo_49:
(Start: 7 @31188 has 15 MA's), (14, 31215), (17, 31221), (21, 31242), (22, 31245), (32, 31329), (33, 31332),

Gene: Lunar_52 Start: 32304, Stop: 32462, Start Num: 6
Candidate Starts for Lunar_52:
(Start: 6 @32304 has 8 MA's), (Start: 7 @32307 has 15 MA's), (13, 32331), (33, 32451),

Gene: Melons_52 Start: 32118, Stop: 32276, Start Num: 6
Candidate Starts for Melons_52:
(Start: 6 @32118 has 8 MA's), (Start: 7 @32121 has 15 MA's), (13, 32145), (33, 32265),

Gene: Orcanus_49 Start: 33380, Stop: 33535, Start Num: 7
Candidate Starts for Orcanus_49:
(Start: 7 @33380 has 15 MA's), (10, 33395), (15, 33410), (18, 33419), (20, 33428), (28, 33497), (33, 33524),

Gene: PhluffyCoco_51 Start: 32582, Stop: 32737, Start Num: 7
Candidate Starts for PhluffyCoco_51:
(Start: 7 @32582 has 15 MA's), (14, 32609), (26, 32687), (31, 32717), (33, 32726),

Gene: Polka_51 Start: 32122, Stop: 32280, Start Num: 6
Candidate Starts for Polka_51:
(Start: 6 @32122 has 8 MA's), (Start: 7 @32125 has 15 MA's), (13, 32149), (20, 32173), (33, 32269),

Gene: RedFox_51 Start: 32581, Stop: 32736, Start Num: 7
Candidate Starts for RedFox_51:
(Start: 7 @32581 has 15 MA's), (14, 32608), (26, 32686), (31, 32716), (33, 32725),

Gene: Renna12_50 Start: 32407, Stop: 32589, Start Num: 4
Candidate Starts for Renna12_50:
(Start: 4 @32407 has 1 MA's), (Start: 7 @32434 has 15 MA's), (8, 32440), (26, 32539), (31, 32569), (33, 32578),

Gene: Ruchi_47 Start: 32275, Stop: 32430, Start Num: 7
Candidate Starts for Ruchi_47:
(Start: 7 @32275 has 15 MA's), (9, 32287), (12, 32296), (16, 32305), (21, 32329), (23, 32335), (25, 32368), (27, 32380), (29, 32395), (30, 32398),

Gene: TaylorSipht_49 Start: 32923, Stop: 33075, Start Num: 7
Candidate Starts for TaylorSipht_49:
(1, 32812), (Start: 7 @32923 has 15 MA's), (20, 32971),

Gene: Vulpecula_47 Start: 31935, Stop: 32090, Start Num: 7
Candidate Starts for Vulpecula_47:
(Start: 7 @31935 has 15 MA's), (9, 31947), (12, 31956), (16, 31965), (21, 31989), (23, 31995), (25, 32028), (27, 32040), (29, 32055), (30, 32058),