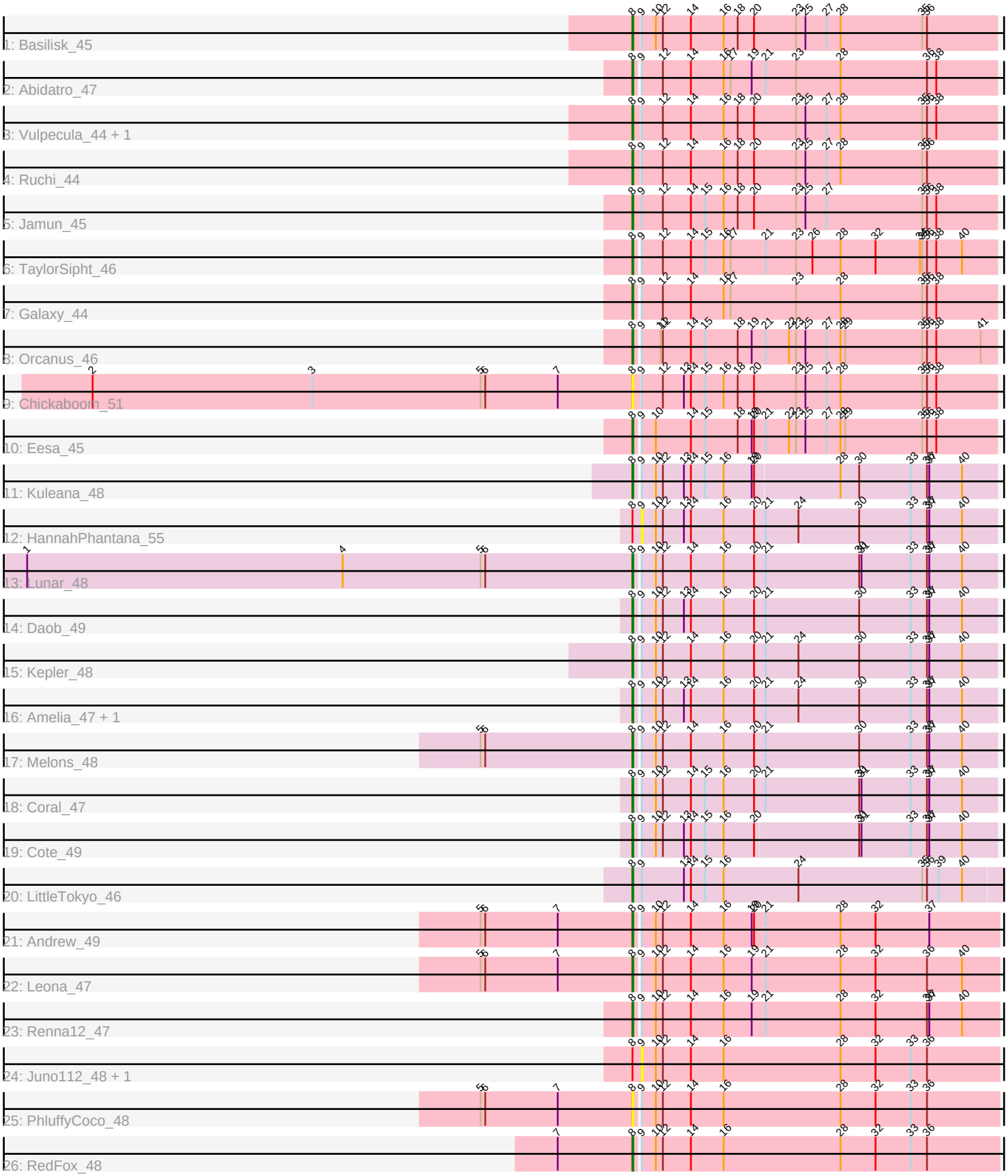
Pham 3393


1: Basilisk_45
2: Abidatro_47
3: Vulpecula_44 + 1
4: Ruchi_44
5: Jamun_45
6: TaylorSipht_46
7: Galaxy_44
8: Orcanus_46
9: Chickaboom_51
10: Eesa_45
11: Kuleana_48
12: HannahPhantana_55
13: Lunar_48
14: Daob_49
15: Kepler_48
16: Amelia_47 + 1
17: Melons_48
18: Coral_47
19: Cote_49
20: LittleTokyo_46
21: Andrew_49
22: Leona_47
23: Renna12_47
24: Juno112_48 + 1
25: PhluffyCoco_48
26: RedFox_48

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 3393 Report

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

Pham number 3393 has 29 members, 5 are drafts.

Phages represented in each track:
- Track 1 : Basilisk_45
- Track 2 : Abidatro_47
- Track 3 : Vulpecula_44, Brynnie_44
- Track 4 : Ruchi_44
- Track 5 : Jamun_45
- Track 6 : TaylorSipht_46
- Track 7 : Galaxy_44
- Track 8 : Orcanus_46
- Track 9 : Chickaboom_51
- Track 10 : Eesa_45
- Track 11 : Kuleana_48
- Track 12 : HannahPhantana_55
- Track 13 : Lunar_48
- Track 14 : Daob_49
- Track 15 : Kepler_48
- Track 16 : Amelia_47, Polka_47
- Track 17 : Melons_48
- Track 18 : Coral_47
- Track 19 : Cote_49
- Track 20 : LittleTokyo_46
- Track 21 : Andrew_49
- Track 22 : Leona_47
- Track 23 : Renna12_47
- Track 24 : Juno112_48, KHumphrey_47
- Track 25 : PhluffyCoco_48
- Track 26 : RedFox_48

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

The start number called the most often in the published annotations is 8, it was called in 24 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Abidatro_47, Amelia_47, Andrew_49, Basilisk_45, Brynnie_44, Chickaboom_51, Coral_47, Cote_49, Daob_49, Eesa_45, Galaxy_44, Jamun_45, Kepler_48, Kuleana_48, Leona_47, LittleTokyo_46, Lunar_48, Melons_48, Orcanus_46, PhluffyCoco_48, Polka_47, RedFox_48, Renna12_47, Ruchi_44, TaylorSipht_46, Vulpecula_44,

Genes that have the "Most Annotated" start but do not call it:
• HannahPhantana_55, Juno112_48, KHumphrey_47,

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

Summary by start number:

Start 8:
• Found in 29 of 29 (100.0%) of genes in pham
• Manual Annotations of this start: 24 of 24
• Called 89.7% of time when present
• Phage (with cluster) where this start called: Abidatro_47 (AS1), Amelia_47 (AS2), Andrew_49 (AS3), Basilisk_45 (AS1), Brynnie_44 (AS1), Chickaboom_51 (AS1), Coral_47 (AS2), Cote_49 (AS2), Daob_49 (AS2), Eesa_45 (AS1), Galaxy_44 (AS1), Jamun_45 (AS1), Kepler_48 (AS2), Kuleana_48 (AS2), Leona_47 (AS3), LittleTokyo_46 (AS2), Lunar_48 (AS2), Melons_48 (AS2), Orcanus_46 (AS1), PhluffyCoco_48 (AS3), Polka_47 (AS2), RedFox_48 (AS3), Renna12_47 (AS3), Ruchi_44 (AS1), TaylorSipht_46 (AS1), Vulpecula_44 (AS1),

Start 9:
• Found in 29 of 29 (100.0%) of genes in pham
• No Manual Annotations of this start.
• Called 10.3% of time when present
• Phage (with cluster) where this start called: HannahPhantana_55 (AS2), Juno112_48 (AS3), KHumphrey_47 (AS3),

Summary by clusters:

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

Info for manual annotations of cluster AS1:
•Start number 8 was manually annotated 10 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 8 was manually annotated 10 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 8 was manually annotated 4 times for cluster AS3.

Gene Information:

Gene: Abidatro_47 Start: 31572, Stop: 32033, Start Num: 8
Candidate Starts for Abidatro_47:

(Start: 8 @31572 has 24 MA's), (9, 31578), (12, 31605), (14, 31641), (16, 31683), (17, 31692), (19, 31719), (21, 31737), (23, 31776), (28, 31833), (36, 31944), (38, 31956),

Gene: Amelia_47 Start: 30578, Stop: 31039, Start Num: 8
Candidate Starts for Amelia_47:
(Start: 8 @30578 has 24 MA's), (9, 30584), (10, 30602), (12, 30611), (13, 30638), (14, 30647), (16, 30689), (20, 30728), (21, 30743), (24, 30785), (30, 30863), (33, 30929), (36, 30950), (37, 30953), (40, 30995),

Gene: Andrew_49 Start: 30861, Stop: 31325, Start Num: 8
Candidate Starts for Andrew_49:
(5, 30666), (6, 30672), (7, 30765), (Start: 8 @30861 has 24 MA's), (9, 30867), (10, 30885), (12, 30894), (14, 30930), (16, 30972), (19, 31008), (20, 31011), (21, 31026), (28, 31122), (32, 31167), (37, 31236),

Gene: Basilisk_45 Start: 30769, Stop: 31233, Start Num: 8
Candidate Starts for Basilisk_45:
(Start: 8 @30769 has 24 MA's), (9, 30778), (10, 30796), (12, 30805), (14, 30841), (16, 30883), (18, 30901), (20, 30922), (23, 30976), (25, 30988), (27, 31015), (28, 31033), (35, 31138), (36, 31144),

Gene: Brynnie_44 Start: 30626, Stop: 31090, Start Num: 8
Candidate Starts for Brynnie_44:
(Start: 8 @30626 has 24 MA's), (9, 30635), (12, 30662), (14, 30698), (16, 30740), (18, 30758), (20, 30779), (23, 30833), (25, 30845), (27, 30872), (28, 30890), (35, 30995), (36, 31001), (38, 31013),

Gene: Chickaboom_51 Start: 31353, Stop: 31817, Start Num: 8
Candidate Starts for Chickaboom_51:
(2, 30660), (3, 30942), (5, 31158), (6, 31164), (7, 31257), (Start: 8 @31353 has 24 MA's), (9, 31362), (12, 31389), (13, 31416), (14, 31425), (15, 31443), (16, 31467), (18, 31485), (20, 31506), (23, 31560), (25, 31572), (27, 31599), (28, 31617), (35, 31722), (36, 31728), (38, 31740),

Gene: Coral_47 Start: 30446, Stop: 30907, Start Num: 8
Candidate Starts for Coral_47:
(Start: 8 @30446 has 24 MA's), (9, 30452), (10, 30470), (12, 30479), (14, 30515), (15, 30533), (16, 30557), (20, 30596), (21, 30611), (30, 30731), (31, 30734), (33, 30797), (36, 30818), (37, 30821), (40, 30863),

Gene: Cote_49 Start: 30923, Stop: 31381, Start Num: 8
Candidate Starts for Cote_49:
(Start: 8 @30923 has 24 MA's), (9, 30929), (10, 30947), (12, 30956), (13, 30983), (14, 30992), (15, 31010), (16, 31034), (20, 31073), (30, 31205), (31, 31208), (33, 31271), (36, 31292), (37, 31295), (40, 31337),

Gene: Daob_49 Start: 30931, Stop: 31392, Start Num: 8
Candidate Starts for Daob_49:
(Start: 8 @30931 has 24 MA's), (9, 30937), (10, 30955), (12, 30964), (13, 30991), (14, 31000), (16, 31042), (20, 31081), (21, 31096), (30, 31216), (33, 31282), (36, 31303), (37, 31306), (40, 31348),

Gene: Eesa_45 Start: 32223, Stop: 32684, Start Num: 8
Candidate Starts for Eesa_45:
(Start: 8 @32223 has 24 MA's), (9, 32229), (10, 32247), (14, 32292), (15, 32310), (18, 32352), (19, 32370), (20, 32373), (21, 32388), (22, 32418), (23, 32427), (25, 32439), (27, 32466), (28, 32484), (29, 32490), (35, 32589), (36, 32595), (38, 32607),

Gene: Galaxy_44 Start: 29992, Stop: 30453, Start Num: 8
Candidate Starts for Galaxy_44:
(Start: 8 @29992 has 24 MA's), (9, 29998), (12, 30025), (14, 30061), (16, 30103), (17, 30112), (23, 30196), (28, 30253), (35, 30358), (36, 30364), (38, 30376),

Gene: HannahPhantana_55 Start: 30579, Stop: 31034, Start Num: 9
Candidate Starts for HannahPhantana_55:
(Start: 8 @30573 has 24 MA's), (9, 30579), (10, 30597), (12, 30606), (13, 30633), (14, 30642), (16, 30684), (20, 30723), (21, 30738), (24, 30780), (30, 30858), (33, 30924), (36, 30945), (37, 30948), (40, 30990),

Gene: Jamun_45 Start: 31507, Stop: 31974, Start Num: 8
Candidate Starts for Jamun_45:
(Start: 8 @31507 has 24 MA's), (9, 31519), (12, 31546), (14, 31582), (15, 31600), (16, 31624), (18, 31642), (20, 31663), (23, 31717), (25, 31729), (27, 31756), (35, 31879), (36, 31885), (38, 31897),

Gene: Juno112_48 Start: 30992, Stop: 31450, Start Num: 9
Candidate Starts for Juno112_48:
(Start: 8 @30986 has 24 MA's), (9, 30992), (10, 31010), (12, 31019), (14, 31055), (16, 31097), (28, 31247), (32, 31292), (33, 31337), (36, 31358),

Gene: KHumphrey_47 Start: 30880, Stop: 31338, Start Num: 9
Candidate Starts for KHumphrey_47:
(Start: 8 @30874 has 24 MA's), (9, 30880), (10, 30898), (12, 30907), (14, 30943), (16, 30985), (28, 31135), (32, 31180), (33, 31225), (36, 31246),

Gene: Kepler_48 Start: 30694, Stop: 31155, Start Num: 8
Candidate Starts for Kepler_48:
(Start: 8 @30694 has 24 MA's), (9, 30700), (10, 30718), (12, 30727), (14, 30763), (16, 30805), (20, 30844), (21, 30859), (24, 30901), (30, 30979), (33, 31045), (36, 31066), (37, 31069), (40, 31111),

Gene: Kuleana_48 Start: 30264, Stop: 30722, Start Num: 8
Candidate Starts for Kuleana_48:
(Start: 8 @30264 has 24 MA's), (9, 30270), (10, 30288), (12, 30297), (13, 30324), (14, 30333), (15, 30351), (16, 30375), (19, 30411), (20, 30414), (28, 30522), (30, 30546), (33, 30612), (36, 30633), (37, 30636), (40, 30678),

Gene: Leona_47 Start: 31062, Stop: 31526, Start Num: 8
Candidate Starts for Leona_47:
(5, 30867), (6, 30873), (7, 30966), (Start: 8 @31062 has 24 MA's), (9, 31068), (10, 31086), (12, 31095), (14, 31131), (16, 31173), (19, 31209), (21, 31227), (28, 31323), (32, 31368), (36, 31434), (40, 31479),

Gene: LittleTokyo_46 Start: 29678, Stop: 30154, Start Num: 8
Candidate Starts for LittleTokyo_46:
(Start: 8 @29678 has 24 MA's), (9, 29690), (13, 29744), (14, 29753), (15, 29771), (16, 29795), (24, 29891), (35, 30050), (36, 30056), (39, 30071), (40, 30101),

Gene: Lunar_48 Start: 30610, Stop: 31071, Start Num: 8
Candidate Starts for Lunar_48:
(1, 29833), (4, 30238), (5, 30415), (6, 30421), (Start: 8 @30610 has 24 MA's), (9, 30616), (10, 30634), (12, 30643), (14, 30679), (16, 30721), (20, 30760), (21, 30775), (30, 30895), (31, 30898), (33, 30961),

(36, 30982), (37, 30985), (40, 31027),

Gene: Melons_48 Start: 30424, Stop: 30885, Start Num: 8
Candidate Starts for Melons_48:
(5, 30229), (6, 30235), (Start: 8 @30424 has 24 MA's), (9, 30430), (10, 30448), (12, 30457), (14, 30493), (16, 30535), (20, 30574), (21, 30589), (30, 30709), (33, 30775), (36, 30796), (37, 30799), (40, 30841),

Gene: Orcanus_46 Start: 31881, Stop: 32342, Start Num: 8
Candidate Starts for Orcanus_46:
(Start: 8 @31881 has 24 MA's), (9, 31887), (11, 31911), (12, 31914), (14, 31950), (15, 31968), (18, 32010), (19, 32028), (21, 32046), (22, 32076), (23, 32085), (25, 32097), (27, 32124), (28, 32142), (29, 32148), (35, 32247), (36, 32253), (38, 32265), (41, 32322),

Gene: PhluffyCoco_48 Start: 31084, Stop: 31548, Start Num: 8
Candidate Starts for PhluffyCoco_48:
(5, 30889), (6, 30895), (7, 30988), (Start: 8 @31084 has 24 MA's), (9, 31090), (10, 31108), (12, 31117), (14, 31153), (16, 31195), (28, 31345), (32, 31390), (33, 31435), (36, 31456),

Gene: Polka_47 Start: 30427, Stop: 30888, Start Num: 8
Candidate Starts for Polka_47:
(Start: 8 @30427 has 24 MA's), (9, 30433), (10, 30451), (12, 30460), (13, 30487), (14, 30496), (16, 30538), (20, 30577), (21, 30592), (24, 30634), (30, 30712), (33, 30778), (36, 30799), (37, 30802), (40, 30844),

Gene: RedFox_48 Start: 31083, Stop: 31547, Start Num: 8
Candidate Starts for RedFox_48:
(7, 30987), (Start: 8 @31083 has 24 MA's), (9, 31089), (10, 31107), (12, 31116), (14, 31152), (16, 31194), (28, 31344), (32, 31389), (33, 31434), (36, 31455),

Gene: Renna12_47 Start: 30940, Stop: 31404, Start Num: 8
Candidate Starts for Renna12_47:
(Start: 8 @30940 has 24 MA's), (9, 30946), (10, 30964), (12, 30973), (14, 31009), (16, 31051), (19, 31087), (21, 31105), (28, 31201), (32, 31246), (36, 31312), (37, 31315), (40, 31357),

Gene: Ruchi_44 Start: 30691, Stop: 31155, Start Num: 8
Candidate Starts for Ruchi_44:
(Start: 8 @30691 has 24 MA's), (9, 30700), (12, 30727), (14, 30763), (16, 30805), (18, 30823), (20, 30844), (23, 30898), (25, 30910), (27, 30937), (28, 30955), (35, 31060), (36, 31066),

Gene: TaylorSipht_46 Start: 31349, Stop: 31810, Start Num: 8
Candidate Starts for TaylorSipht_46:
(Start: 8 @31349 has 24 MA's), (9, 31355), (12, 31382), (14, 31418), (15, 31436), (16, 31460), (17, 31469), (21, 31514), (23, 31553), (26, 31574), (28, 31610), (32, 31655), (34, 31712), (35, 31715), (36, 31721), (38, 31733), (40, 31766),

Gene: Vulpecula_44 Start: 30368, Stop: 30832, Start Num: 8
Candidate Starts for Vulpecula_44:
(Start: 8 @30368 has 24 MA's), (9, 30377), (12, 30404), (14, 30440), (16, 30482), (18, 30500), (20, 30521), (23, 30575), (25, 30587), (27, 30614), (28, 30632), (35, 30737), (36, 30743), (38, 30755),