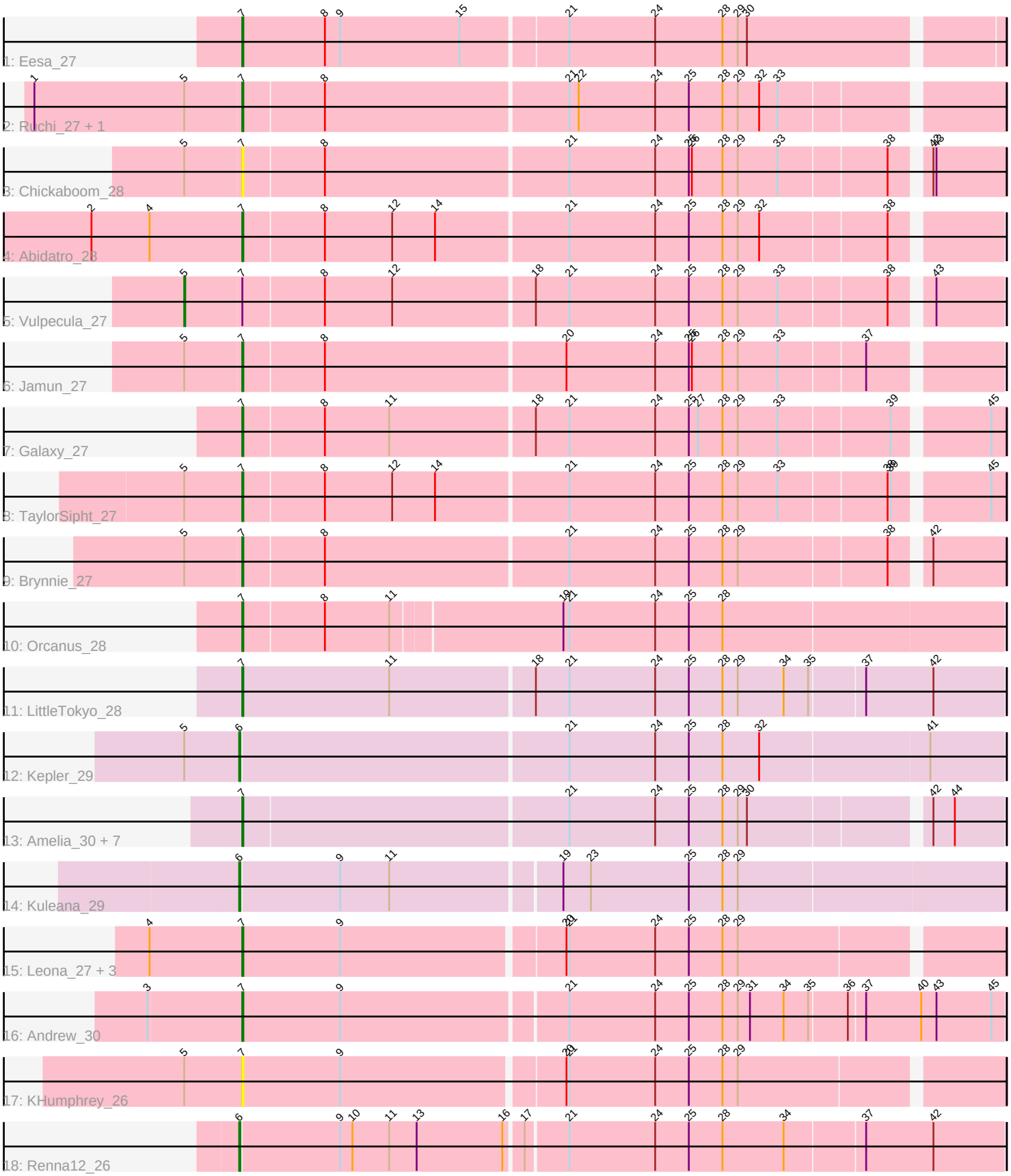
Pham 3464


1: Eesa_27
2: Ruchi_27 + 1
3: Chickaboom_28
4: Abidatro_28
5: Vulpecula_27
6: Jamun_27
7: Galaxy_27
8: TaylorSipht_27
9: Brynnie_27
10: Orcanus_28
11: LittleTokyo_28
12: Kepler_29
13: Amelia_30 + 7
14: Kuleana_29
15: Leona_27 + 3
16: Andrew_30
17: KHumphrey_26
18: Renna12_26

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 3464 Report

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

Pham number 3464 has 29 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Eesa_27
• Track 2 : Ruchi_27, Basilisk_28
• Track 3 : Chickaboom_28
• Track 4 : Abidatro_28
• Track 5 : Vulpecula_27
• Track 6 : Jamun_27
• Track 7 : Galaxy_27
• Track 8 : TaylorSipht_27
• Track 9 : Brynnie_27
• Track 10 : Orcanus_28
• Track 11 : LittleTokyo_28
• Track 12 : Kepler_29
• Track 13 : Amelia_30, Melons_30, HannahPhantana_30, Cote_30, Lunar_30, Polka_29, Daob_30, Coral_29
• Track 14 : Kuleana_29
• Track 15 : Leona_27, PhluffyCoco_27, Juno112_26, RedFox_27
• Track 16 : Andrew_30
• Track 17 : KHumphrey_26
• Track 18 : Renna12_26

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 20 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Abidatro_28, Amelia_30, Andrew_30, Basilisk_28, Brynnie_27, Chickaboom_28, Coral_29, Cote_30, Daob_30, Eesa_27, Galaxy_27, HannahPhantana_30, Jamun_27, Juno112_26, KHumphrey_26, Leona_27, LittleTokyo_28, Lunar_30, Melons_30, Orcanus_28, PhluffyCoco_27, Polka_29, RedFox_27, Ruchi_27, TaylorSipht_27,

Genes that have the "Most Annotated" start but do not call it:
• Vulpecula_27,

Genes that do not have the "Most Annotated" start:
• Kepler_29, Kuleana_29, Renna12_26,

Summary by start number:

Start 5:
• Found in 9 of 29 (31.0%) of genes in pham
• Manual Annotations of this start: 1 of 24
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Vulpecula_27 (AS1),

Start 6:
• Found in 3 of 29 (10.3%) of genes in pham
• Manual Annotations of this start: 3 of 24
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kepler_29 (AS2), Kuleana_29 (AS2), Renna12_26 (AS3),

Start 7:
• Found in 26 of 29 (89.7%) of genes in pham
• Manual Annotations of this start: 20 of 24
• Called 96.2% of time when present
• Phage (with cluster) where this start called: Abidatro_28 (AS1), Amelia_30 (AS2), Andrew_30 (AS3), Basilisk_28 (AS1), Brynnie_27 (AS1), Chickaboom_28 (AS1), Coral_29 (AS2), Cote_30 (AS2), Daob_30 (AS2), Eesa_27 (AS1), Galaxy_27 (AS1), HannahPhantana_30 (AS2), Jamun_27 (AS1), Juno112_26 (AS3), KHumphrey_26 (AS3), Leona_27 (AS3), LittleTokyo_28 (AS2), Lunar_30 (AS2), Melons_30 (AS2), Orcanus_28 (AS1), PhluffyCoco_27 (AS3), Polka_29 (AS2), RedFox_27 (AS3), Ruchi_27 (AS1), TaylorSipht_27 (AS1),

Summary by clusters:

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

Info for manual annotations of cluster AS1:
•Start number 5 was manually annotated 1 time for cluster AS1.
•Start number 7 was manually annotated 9 times for cluster AS1.

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

Info for manual annotations of cluster AS3:
•Start number 6 was manually annotated 1 time for cluster AS3.
•Start number 7 was manually annotated 3 times for cluster AS3.

Gene Information:

Gene: Abidatro_28 Start: 20491, Stop: 19775, Start Num: 7
Candidate Starts for Abidatro_28:

(2, 20638), (4, 20581), (Start: 7 @20491 has 20 MA's), (8, 20413), (12, 20347), (14, 20305), (21, 20179), (24, 20095), (25, 20062), (28, 20029), (29, 20014), (32, 19993), (38, 19873),

Gene: Amelia_30 Start: 20495, Stop: 19779, Start Num: 7
Candidate Starts for Amelia_30:
(Start: 7 @20495 has 20 MA's), (21, 20183), (24, 20099), (25, 20066), (28, 20033), (29, 20018), (30, 20009), (42, 19847), (44, 19826),

Gene: Andrew_30 Start: 20092, Stop: 19364, Start Num: 7
Candidate Starts for Andrew_30:
(3, 20182), (Start: 7 @20092 has 20 MA's), (9, 19996), (21, 19783), (24, 19699), (25, 19666), (28, 19633), (29, 19618), (31, 19606), (34, 19573), (35, 19549), (36, 19513), (37, 19498), (40, 19444), (43, 19429), (45, 19375),

Gene: Basilisk_28 Start: 21197, Stop: 20478, Start Num: 7
Candidate Starts for Basilisk_28:
(1, 21398), (Start: 5 @21251 has 1 MA's), (Start: 7 @21197 has 20 MA's), (8, 21119), (21, 20885), (22, 20876), (24, 20801), (25, 20768), (28, 20735), (29, 20720), (32, 20699), (33, 20681),

Gene: Brynnie_27 Start: 20744, Stop: 20025, Start Num: 7
Candidate Starts for Brynnie_27:
(Start: 5 @20798 has 1 MA's), (Start: 7 @20744 has 20 MA's), (8, 20666), (21, 20432), (24, 20348), (25, 20315), (28, 20282), (29, 20267), (38, 20126), (42, 20096),

Gene: Chickaboom_28 Start: 19834, Stop: 19115, Start Num: 7
Candidate Starts for Chickaboom_28:
(Start: 5 @19888 has 1 MA's), (Start: 7 @19834 has 20 MA's), (8, 19756), (21, 19522), (24, 19438), (25, 19405), (26, 19402), (28, 19372), (29, 19357), (33, 19318), (38, 19216), (42, 19186), (43, 19183),

Gene: Coral_29 Start: 20334, Stop: 19618, Start Num: 7
Candidate Starts for Coral_29:
(Start: 7 @20334 has 20 MA's), (21, 20022), (24, 19938), (25, 19905), (28, 19872), (29, 19857), (30, 19848), (42, 19686), (44, 19665),

Gene: Cote_30 Start: 20479, Stop: 19763, Start Num: 7
Candidate Starts for Cote_30:
(Start: 7 @20479 has 20 MA's), (21, 20167), (24, 20083), (25, 20050), (28, 20017), (29, 20002), (30, 19993), (42, 19831), (44, 19810),

Gene: Daob_30 Start: 20485, Stop: 19769, Start Num: 7
Candidate Starts for Daob_30:
(Start: 7 @20485 has 20 MA's), (21, 20173), (24, 20089), (25, 20056), (28, 20023), (29, 20008), (30, 19999), (42, 19837), (44, 19816),

Gene: Eesa_27 Start: 21236, Stop: 20514, Start Num: 7
Candidate Starts for Eesa_27:
(Start: 7 @21236 has 20 MA's), (8, 21155), (9, 21140), (15, 21023), (21, 20924), (24, 20840), (28, 20774), (29, 20759), (30, 20750),

Gene: Galaxy_27 Start: 20442, Stop: 19723, Start Num: 7
Candidate Starts for Galaxy_27:
(Start: 7 @20442 has 20 MA's), (8, 20364), (11, 20301), (18, 20163), (21, 20130), (24, 20046), (25, 20013), (27, 20004), (28, 19980), (29, 19965), (33, 19926), (39, 19821), (45, 19737),

Gene: HannahPhantana_30 Start: 20491, Stop: 19775, Start Num: 7
Candidate Starts for HannahPhantana_30:
(Start: 7 @20491 has 20 MA's), (21, 20179), (24, 20095), (25, 20062), (28, 20029), (29, 20014), (30, 20005), (42, 19843), (44, 19822),

Gene: Jamun_27 Start: 20338, Stop: 19622, Start Num: 7
Candidate Starts for Jamun_27:
(Start: 5 @20392 has 1 MA's), (Start: 7 @20338 has 20 MA's), (8, 20260), (20, 20029), (24, 19942), (25, 19909), (26, 19906), (28, 19876), (29, 19861), (33, 19822), (37, 19741),

Gene: Juno112_26 Start: 19505, Stop: 18786, Start Num: 7
Candidate Starts for Juno112_26:
(4, 19592), (Start: 7 @19505 has 20 MA's), (9, 19409), (20, 19199), (21, 19196), (24, 19112), (25, 19079), (28, 19046), (29, 19031),

Gene: KHumphrey_26 Start: 19502, Stop: 18783, Start Num: 7
Candidate Starts for KHumphrey_26:
(Start: 5 @19556 has 1 MA's), (Start: 7 @19502 has 20 MA's), (9, 19406), (20, 19196), (21, 19193), (24, 19109), (25, 19076), (28, 19043), (29, 19028),

Gene: Kepler_29 Start: 20469, Stop: 19735, Start Num: 6
Candidate Starts for Kepler_29:
(Start: 5 @20523 has 1 MA's), (Start: 6 @20469 has 3 MA's), (21, 20154), (24, 20070), (25, 20037), (28, 20004), (32, 19968), (41, 19806),

Gene: Kuleana_29 Start: 20070, Stop: 19339, Start Num: 6
Candidate Starts for Kuleana_29:
(Start: 6 @20070 has 3 MA's), (9, 19974), (11, 19926), (19, 19767), (23, 19740), (25, 19644), (28, 19611), (29, 19596),

Gene: Leona_27 Start: 19585, Stop: 18866, Start Num: 7
Candidate Starts for Leona_27:
(4, 19672), (Start: 7 @19585 has 20 MA's), (9, 19489), (20, 19279), (21, 19276), (24, 19192), (25, 19159), (28, 19126), (29, 19111),

Gene: LittleTokyo_28 Start: 20046, Stop: 19312, Start Num: 7
Candidate Starts for LittleTokyo_28:
(Start: 7 @20046 has 20 MA's), (11, 19902), (18, 19764), (21, 19731), (24, 19647), (25, 19614), (28, 19581), (29, 19566), (34, 19521), (35, 19497), (37, 19446), (42, 19380),

Gene: Lunar_30 Start: 20479, Stop: 19763, Start Num: 7
Candidate Starts for Lunar_30:
(Start: 7 @20479 has 20 MA's), (21, 20167), (24, 20083), (25, 20050), (28, 20017), (29, 20002), (30, 19993), (42, 19831), (44, 19810),

Gene: Melons_30 Start: 20479, Stop: 19763, Start Num: 7
Candidate Starts for Melons_30:
(Start: 7 @20479 has 20 MA's), (21, 20167), (24, 20083), (25, 20050), (28, 20017), (29, 20002), (30, 19993), (42, 19831), (44, 19810),

Gene: Orcanus_28 Start: 21006, Stop: 20278, Start Num: 7
Candidate Starts for Orcanus_28:

(Start: 7 @21006 has 20 MA's), (8, 20928), (11, 20865), (19, 20703), (21, 20697), (24, 20613), (25, 20580), (28, 20547),

Gene: PhluffyCoco_27 Start: 19489, Stop: 18770, Start Num: 7
Candidate Starts for PhluffyCoco_27:
(4, 19576), (Start: 7 @19489 has 20 MA's), (9, 19393), (20, 19183), (21, 19180), (24, 19096), (25, 19063), (28, 19030), (29, 19015),

Gene: Polka_29 Start: 20343, Stop: 19627, Start Num: 7
Candidate Starts for Polka_29:
(Start: 7 @20343 has 20 MA's), (21, 20031), (24, 19947), (25, 19914), (28, 19881), (29, 19866), (30, 19857), (42, 19695), (44, 19674),

Gene: RedFox_27 Start: 19502, Stop: 18783, Start Num: 7
Candidate Starts for RedFox_27:
(4, 19589), (Start: 7 @19502 has 20 MA's), (9, 19406), (20, 19196), (21, 19193), (24, 19109), (25, 19076), (28, 19043), (29, 19028),

Gene: Renna12_26 Start: 19758, Stop: 19030, Start Num: 6
Candidate Starts for Renna12_26:
(Start: 6 @19758 has 3 MA's), (9, 19662), (10, 19650), (11, 19614), (13, 19587), (16, 19503), (17, 19488), (21, 19449), (24, 19365), (25, 19332), (28, 19299), (34, 19239), (37, 19164), (42, 19098),

Gene: Ruchi_27 Start: 21143, Stop: 20424, Start Num: 7
Candidate Starts for Ruchi_27:
(1, 21344), (Start: 5 @21197 has 1 MA's), (Start: 7 @21143 has 20 MA's), (8, 21065), (21, 20831), (22, 20822), (24, 20747), (25, 20714), (28, 20681), (29, 20666), (32, 20645), (33, 20627),

Gene: TaylorSipht_27 Start: 19758, Stop: 19039, Start Num: 7
Candidate Starts for TaylorSipht_27:
(Start: 5 @19812 has 1 MA's), (Start: 7 @19758 has 20 MA's), (8, 19680), (12, 19614), (14, 19572), (21, 19446), (24, 19362), (25, 19329), (28, 19296), (29, 19281), (33, 19242), (38, 19140), (39, 19137), (45, 19053),

Gene: Vulpecula_27 Start: 20391, Stop: 19621, Start Num: 5
Candidate Starts for Vulpecula_27:
(Start: 5 @20391 has 1 MA's), (Start: 7 @20337 has 20 MA's), (8, 20259), (12, 20193), (18, 20058), (21, 20025), (24, 19941), (25, 19908), (28, 19875), (29, 19860), (33, 19821), (38, 19719), (43, 19686),