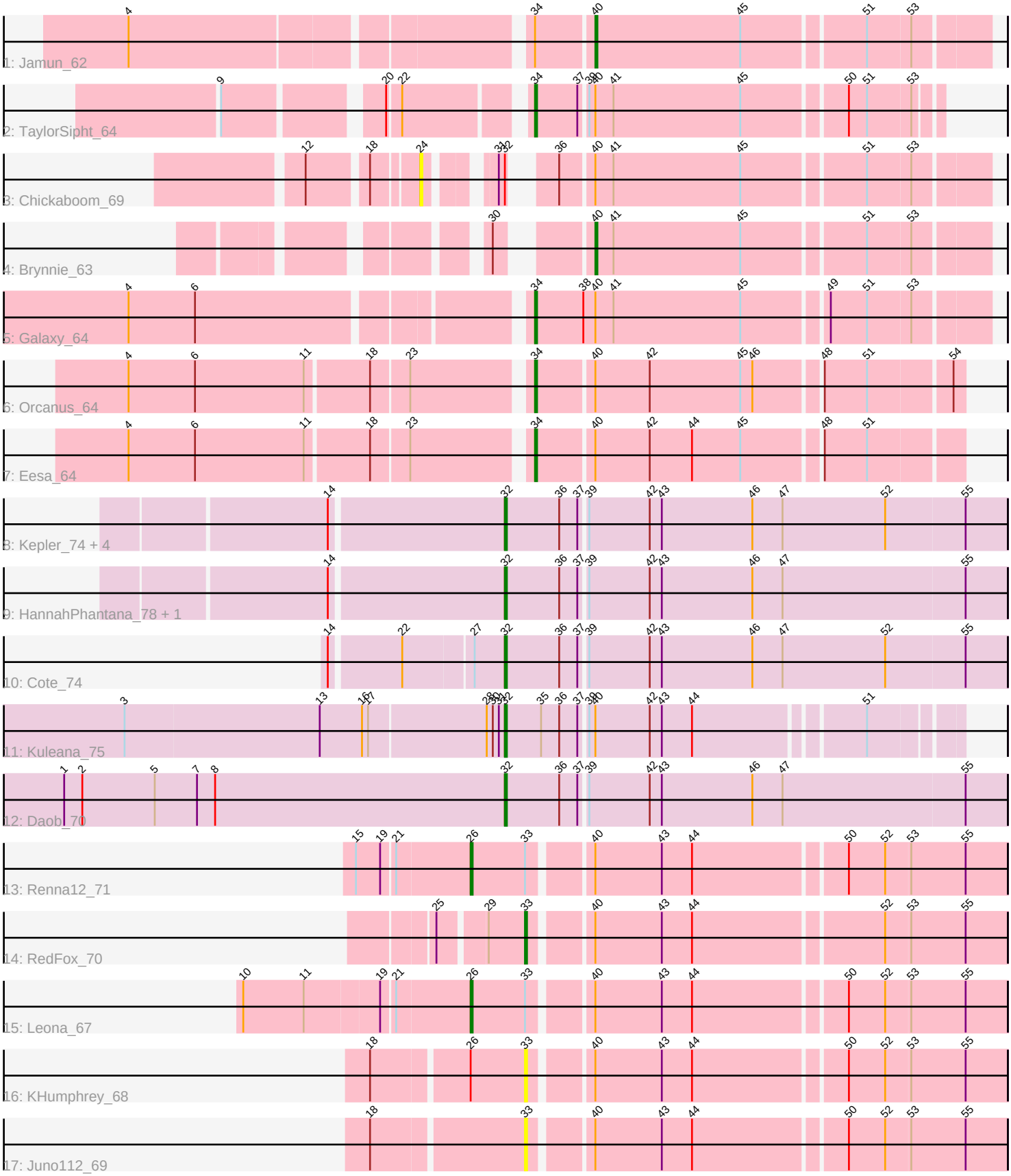
Pham 162162


1: Jamun_62
2: TaylorSipht_64
3: Chickaboom_69
4: Brynnie_63
5: Galaxy_64
6: Orcanus_64
7: Eesa_64
8: Kepler_74 + 4
9: HannahPhantana_78 + 1
10: Cote_74
11: Kuleana_75
12: Daobi_70
13: Renna12_71
14: RedFox_70
15: Leona_67
16: KHumphrey_68
17: Juno112_69

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 162162 Report

This analysis was run 05/04/24 on database version 560.

Pham number 162162 has 22 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Jamun_62
• Track 2 : TaylorSipht_64
• Track 3 : Chickaboom_69
• Track 4 : Brynnie_63
• Track 5 : Galaxy_64
• Track 6 : Orcanus_64
• Track 7 : Eesa_64
• Track 8 : Kepler_74, Amelia_70, Melons_72, Coral_71, Lunar_72
• Track 9 : HannahPhantana_78, Polka_70
• Track 10 : Cote_74
• Track 11 : Kuleana_75
• Track 12 : Daob_70
• Track 13 : Renna12_71
• Track 14 : RedFox_70
• Track 15 : Leona_67
• Track 16 : KHumphrey_68
• Track 17 : Juno112_69

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

The start number called the most often in the published annotations is 32, it was called in 9 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amelia_70, Coral_71, Cote_74, Daob_70, HannahPhantana_78, Kepler_74, Kuleana_75, Lunar_72, Melons_72, Polka_70,

Genes that have the "Most Annotated" start but do not call it:
• Chickaboom_69,

Genes that do not have the "Most Annotated" start:
• Brynnie_63, Eesa_64, Galaxy_64, Jamun_62, Juno112_69, KHumphrey_68, Leona_67, Orcanus_64, RedFox_70, Renna12_71, TaylorSipht_64,

Summary by start number:

Start 24:
• Found in 1 of 22 (4.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chickaboom_69 (AS1),

Start 26:
• Found in 3 of 22 (13.6%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Leona_67 (AS3), Renna12_71 (AS3),

Start 32:
• Found in 11 of 22 (50.0%) of genes in pham
• Manual Annotations of this start: 9 of 18
• Called 90.9% of time when present
• Phage (with cluster) where this start called: Amelia_70 (AS2), Coral_71 (AS2), Cote_74 (AS2), Daob_70 (AS2), HannahPhantana_78 (AS2), Kepler_74 (AS2), Kuleana_75 (AS2), Lunar_72 (AS2), Melons_72 (AS2), Polka_70 (AS2),

Start 33:
• Found in 5 of 22 (22.7%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Juno112_69 (AS3), KHumphrey_68 (AS3), RedFox_70 (AS3),

Start 34:
• Found in 5 of 22 (22.7%) of genes in pham
• Manual Annotations of this start: 4 of 18
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Eesa_64 (AS1), Galaxy_64 (AS1), Orcanus_64 (AS1), TaylorSipht_64 (AS1),

Start 40:
• Found in 13 of 22 (59.1%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 15.4% of time when present
• Phage (with cluster) where this start called: Brynnie_63 (AS1), Jamun_62 (AS1),

Summary by clusters:

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

Info for manual annotations of cluster AS1:
•Start number 34 was manually annotated 4 times for cluster AS1.
•Start number 40 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 32 was manually annotated 9 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 26 was manually annotated 2 times for cluster AS3.
•Start number 33 was manually annotated 1 time for cluster AS3.

Gene Information:

Gene: Amelia_70 Start: 37346, Stop: 37591, Start Num: 32
Candidate Starts for Amelia_70:
(14, 37262), (Start: 32 @37346 has 9 MA's), (36, 37373), (37, 37382), (39, 37385), (42, 37415), (43, 37421), (46, 37466), (47, 37481), (52, 37532), (55, 37571),

Gene: Brynnie_63 Start: 37788, Stop: 37973, Start Num: 40
Candidate Starts for Brynnie_63:
(30, 37755), (Start: 40 @37788 has 2 MA's), (41, 37797), (45, 37860), (51, 37917), (53, 37938),

Gene: Chickaboom_69 Start: 37896, Stop: 38135, Start Num: 24
Candidate Starts for Chickaboom_69:
(12, 37848), (18, 37875), (24, 37896), (31, 37920), (Start: 32 @37923 has 9 MA's), (36, 37935), (Start: 40 @37950 has 2 MA's), (41, 37959), (45, 38022), (51, 38079), (53, 38100),

Gene: Coral_71 Start: 37538, Stop: 37783, Start Num: 32
Candidate Starts for Coral_71:
(14, 37454), (Start: 32 @37538 has 9 MA's), (36, 37565), (37, 37574), (39, 37577), (42, 37607), (43, 37613), (46, 37658), (47, 37673), (52, 37724), (55, 37763),

Gene: Cote_74 Start: 38262, Stop: 38507, Start Num: 32
Candidate Starts for Cote_74:
(14, 38181), (22, 38214), (27, 38247), (Start: 32 @38262 has 9 MA's), (36, 38289), (37, 38298), (39, 38301), (42, 38331), (43, 38337), (46, 38382), (47, 38397), (52, 38448), (55, 38487),

Gene: Daob_70 Start: 37188, Stop: 37433, Start Num: 32
Candidate Starts for Daob_70:
(1, 36969), (2, 36978), (5, 37014), (7, 37035), (8, 37044), (Start: 32 @37188 has 9 MA's), (36, 37215), (37, 37224), (39, 37227), (42, 37257), (43, 37263), (46, 37308), (47, 37323), (55, 37413),

Gene: Eesa_64 Start: 39050, Stop: 39250, Start Num: 34
Candidate Starts for Eesa_64:
(4, 38861), (6, 38894), (11, 38948), (18, 38978), (23, 38996), (Start: 34 @39050 has 4 MA's), (Start: 40 @39077 has 2 MA's), (42, 39104), (44, 39125), (45, 39149), (48, 39185), (51, 39206),

Gene: Galaxy_64 Start: 36960, Stop: 37175, Start Num: 34
Candidate Starts for Galaxy_64:
(4, 36777), (6, 36810), (Start: 34 @36960 has 4 MA's), (38, 36984), (Start: 40 @36990 has 2 MA's), (41, 36999), (45, 37062), (49, 37101), (51, 37119), (53, 37140),

Gene: HannahPhantana_78 Start: 37341, Stop: 37586, Start Num: 32
Candidate Starts for HannahPhantana_78:
(14, 37257), (Start: 32 @37341 has 9 MA's), (36, 37368), (37, 37377), (39, 37380), (42, 37410), (43, 37416), (46, 37461), (47, 37476), (55, 37566),

Gene: Jamun_62 Start: 38028, Stop: 38213, Start Num: 40

Candidate Starts for Jamun_62:
(4, 37818), (Start: 34 @38001 has 4 MA's), (Start: 40 @38028 has 2 MA's), (45, 38100), (51, 38157), (53, 38178),

Gene: Juno112_69 Start: 37637, Stop: 37861, Start Num: 33
Candidate Starts for Juno112_69:
(18, 37565), (Start: 33 @37637 has 1 MA's), (Start: 40 @37664 has 2 MA's), (43, 37697), (44, 37712), (50, 37784), (52, 37802), (53, 37814), (55, 37841),

Gene: KHumphrey_68 Start: 37510, Stop: 37734, Start Num: 33
Candidate Starts for KHumphrey_68:
(18, 37438), (Start: 26 @37483 has 2 MA's), (Start: 33 @37510 has 1 MA's), (Start: 40 @37537 has 2 MA's), (43, 37570), (44, 37585), (50, 37657), (52, 37675), (53, 37687), (55, 37714),

Gene: Kepler_74 Start: 37670, Stop: 37915, Start Num: 32
Candidate Starts for Kepler_74:
(14, 37586), (Start: 32 @37670 has 9 MA's), (36, 37697), (37, 37706), (39, 37709), (42, 37739), (43, 37745), (46, 37790), (47, 37805), (52, 37856), (55, 37895),

Gene: Kuleana_75 Start: 38064, Stop: 38273, Start Num: 32
Candidate Starts for Kuleana_75:
(3, 37878), (13, 37974), (16, 37995), (17, 37998), (28, 38055), (30, 38058), (31, 38061), (Start: 32 @38064 has 9 MA's), (35, 38082), (36, 38091), (37, 38100), (39, 38103), (Start: 40 @38106 has 2 MA's), (42, 38133), (43, 38139), (44, 38154), (51, 38232),

Gene: Leona_67 Start: 37757, Stop: 38008, Start Num: 26
Candidate Starts for Leona_67:
(10, 37649), (11, 37679), (19, 37715), (21, 37721), (Start: 26 @37757 has 2 MA's), (Start: 33 @37784 has 1 MA's), (Start: 40 @37811 has 2 MA's), (43, 37844), (44, 37859), (50, 37931), (52, 37949), (53, 37961), (55, 37988),

Gene: Lunar_72 Start: 37670, Stop: 37915, Start Num: 32
Candidate Starts for Lunar_72:
(14, 37586), (Start: 32 @37670 has 9 MA's), (36, 37697), (37, 37706), (39, 37709), (42, 37739), (43, 37745), (46, 37790), (47, 37805), (52, 37856), (55, 37895),

Gene: Melons_72 Start: 37679, Stop: 37924, Start Num: 32
Candidate Starts for Melons_72:
(14, 37595), (Start: 32 @37679 has 9 MA's), (36, 37706), (37, 37715), (39, 37718), (42, 37748), (43, 37754), (46, 37799), (47, 37814), (52, 37865), (55, 37904),

Gene: Orcanus_64 Start: 38537, Stop: 38737, Start Num: 34
Candidate Starts for Orcanus_64:
(4, 38348), (6, 38381), (11, 38435), (18, 38465), (23, 38483), (Start: 34 @38537 has 4 MA's), (Start: 40 @38564 has 2 MA's), (42, 38591), (45, 38636), (46, 38642), (48, 38672), (51, 38693), (54, 38732),

Gene: Polka_70 Start: 37295, Stop: 37540, Start Num: 32
Candidate Starts for Polka_70:
(14, 37211), (Start: 32 @37295 has 9 MA's), (36, 37322), (37, 37331), (39, 37334), (42, 37364), (43, 37370), (46, 37415), (47, 37430), (55, 37520),

Gene: RedFox_70 Start: 37895, Stop: 38119, Start Num: 33
Candidate Starts for RedFox_70:

(25, 37856), (29, 37877), (Start: 33 @37895 has 1 MA's), (Start: 40 @37922 has 2 MA's), (43, 37955), (44, 37970), (52, 38060), (53, 38072), (55, 38099),

Gene: Renna12_71 Start: 38335, Stop: 38586, Start Num: 26
Candidate Starts for Renna12_71:
(15, 38281), (19, 38293), (21, 38299), (Start: 26 @38335 has 2 MA's), (Start: 33 @38362 has 1 MA's), (Start: 40 @38389 has 2 MA's), (43, 38422), (44, 38437), (50, 38509), (52, 38527), (53, 38539), (55, 38566),

Gene: TaylorSipht_64 Start: 38271, Stop: 38459, Start Num: 34
Candidate Starts for TaylorSipht_64:
(9, 38142), (20, 38211), (22, 38217), (Start: 34 @38271 has 4 MA's), (37, 38292), (39, 38295), (Start: 40 @38298 has 2 MA's), (41, 38307), (45, 38370), (50, 38418), (51, 38427), (53, 38448),