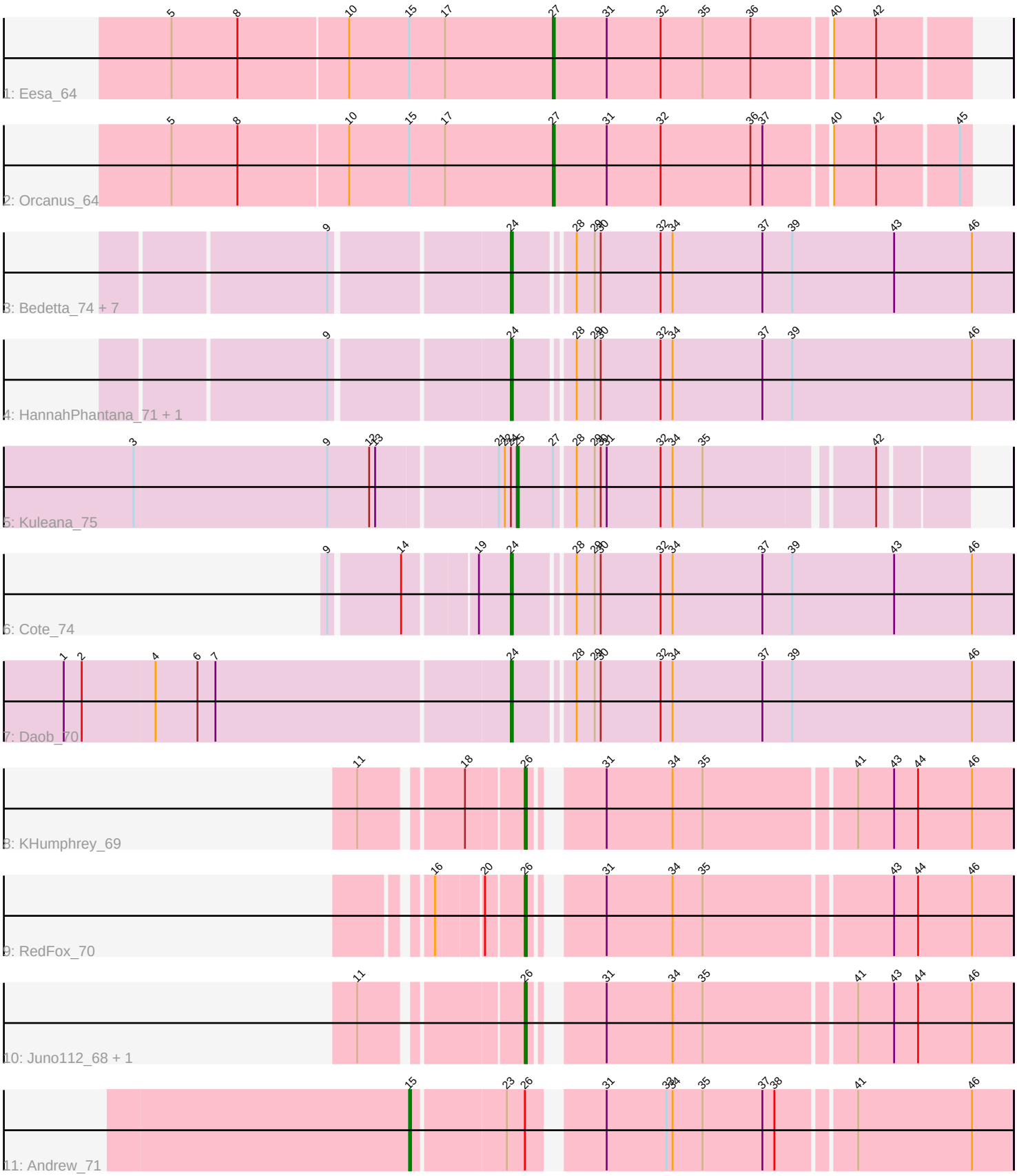
Pham 196847


1: Eesa_64
2: Orcanus_64
3: Bedetta_74 + 7
4: HannahPhantana_71 + 1
5: Kuleana_75
6: Cote_74
7: Daob_70
8: KHumphrey_69
9: RedFox_70
10: Juno112_68 + 1
11: Andrew_71

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 196847 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196847 has 20 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Eesa_64
• Track 2 : Orcanus_64
• Track 3 : Bedetta_74, Kepler_74, Jerole_78, Melons_72, Coral_71, Colusalem_71, Amelia_70, Lunar_72
• Track 4 : HannahPhantana_71, Polka_70
• Track 5 : Kuleana_75
• Track 6 : Cote_74
• Track 7 : Daob_70
• Track 8 : KHumphrey_69
• Track 9 : RedFox_70
• Track 10 : Juno112_68, Camara_68
• Track 11 : Andrew_71

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

The start number called the most often in the published annotations is 24, it was called in 9 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amelia_70, Bedetta_74, Colusalem_71, Coral_71, Cote_74, Daob_70, HannahPhantana_71, Jerole_78, Kepler_74, Lunar_72, Melons_72, Polka_70,

Genes that have the "Most Annotated" start but do not call it:
• Kuleana_75,

Genes that do not have the "Most Annotated" start:
• Andrew_71, Camara_68, Eesa_64, Juno112_68, KHumphrey_69, Orcanus_64, RedFox_70,

Summary by start number:

Start 15:
• Found in 3 of 20 (15.0%) of genes in pham
• Manual Annotations of this start: 1 of 16

• Called 33.3% of time when present
• Phage (with cluster) where this start called: Andrew_71 (AS3),

Start 24:
• Found in 13 of 20 (65.0%) of genes in pham
• Manual Annotations of this start: 9 of 16
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Amelia_70 (AS2), Bedetta_74 (AS2), Colusalem_71 (AS2), Coral_71 (AS2), Cote_74 (AS2), Daob_70 (AS2), HannahPhantana_71 (AS2), Jerole_78 (AS2), Kepler_74 (AS2), Lunar_72 (AS2), Melons_72 (AS2), Polka_70 (AS2),

Start 25:
• Found in 1 of 20 (5.0%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Kuleana_75 (AS2),

Start 26:
• Found in 5 of 20 (25.0%) of genes in pham
• Manual Annotations of this start: 3 of 16
• Called 80.0% of time when present
• Phage (with cluster) where this start called: Camara_68 (AS3), Juno112_68 (AS3), KHumphrey_69 (AS3), RedFox_70 (AS3),

Start 27:
• Found in 3 of 20 (15.0%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Eesa_64 (AS1), Orcanus_64 (AS1),

Summary by clusters:

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

Info for manual annotations of cluster AS1:
•Start number 27 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 24 was manually annotated 9 times for cluster AS2.
•Start number 25 was manually annotated 1 time for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 15 was manually annotated 1 time for cluster AS3.
•Start number 26 was manually annotated 3 times for cluster AS3.

Gene Information:

Gene: Amelia_70 Start: 37346, Stop: 37591, Start Num: 24
Candidate Starts for Amelia_70:

(9, 37262), (Start: 24 @37346 has 9 MA's), (28, 37373), (29, 37382), (30, 37385), (32, 37415), (34, 37421), (37, 37466), (39, 37481), (43, 37532), (46, 37571),

Gene: Andrew_71 Start: 37949, Stop: 38230, Start Num: 15
Candidate Starts for Andrew_71:
(Start: 15 @37949 has 1 MA's), (23, 37994), (Start: 26 @38003 has 3 MA's), (31, 38033), (33, 38063), (34, 38066), (35, 38081), (37, 38111), (38, 38117), (41, 38153), (46, 38210),

Gene: Bedetta_74 Start: 37509, Stop: 37754, Start Num: 24
Candidate Starts for Bedetta_74:
(9, 37425), (Start: 24 @37509 has 9 MA's), (28, 37536), (29, 37545), (30, 37548), (32, 37578), (34, 37584), (37, 37629), (39, 37644), (43, 37695), (46, 37734),

Gene: Camara_68 Start: 37526, Stop: 37750, Start Num: 26
Candidate Starts for Camara_68:
(11, 37454), (Start: 26 @37526 has 3 MA's), (31, 37553), (34, 37586), (35, 37601), (41, 37673), (43, 37691), (44, 37703), (46, 37730),

Gene: Colusalem_71 Start: 37323, Stop: 37568, Start Num: 24
Candidate Starts for Colusalem_71:
(9, 37239), (Start: 24 @37323 has 9 MA's), (28, 37350), (29, 37359), (30, 37362), (32, 37392), (34, 37398), (37, 37443), (39, 37458), (43, 37509), (46, 37548),

Gene: Coral_71 Start: 37538, Stop: 37783, Start Num: 24
Candidate Starts for Coral_71:
(9, 37454), (Start: 24 @37538 has 9 MA's), (28, 37565), (29, 37574), (30, 37577), (32, 37607), (34, 37613), (37, 37658), (39, 37673), (43, 37724), (46, 37763),

Gene: Cote_74 Start: 38262, Stop: 38507, Start Num: 24
Candidate Starts for Cote_74:
(9, 38181), (14, 38214), (19, 38247), (Start: 24 @38262 has 9 MA's), (28, 38289), (29, 38298), (30, 38301), (32, 38331), (34, 38337), (37, 38382), (39, 38397), (43, 38448), (46, 38487),

Gene: Daob_70 Start: 37188, Stop: 37433, Start Num: 24
Candidate Starts for Daob_70:
(1, 36969), (2, 36978), (4, 37014), (6, 37035), (7, 37044), (Start: 24 @37188 has 9 MA's), (28, 37215), (29, 37224), (30, 37227), (32, 37257), (34, 37263), (37, 37308), (39, 37323), (46, 37413),

Gene: Eesa_64 Start: 39050, Stop: 39250, Start Num: 27
Candidate Starts for Eesa_64:
(5, 38861), (8, 38894), (10, 38948), (Start: 15 @38978 has 1 MA's), (17, 38996), (Start: 27 @39050 has 2 MA's), (31, 39077), (32, 39104), (35, 39125), (36, 39149), (40, 39185), (42, 39206),

Gene: HannahPhantana_71 Start: 37341, Stop: 37586, Start Num: 24
Candidate Starts for HannahPhantana_71:
(9, 37257), (Start: 24 @37341 has 9 MA's), (28, 37368), (29, 37377), (30, 37380), (32, 37410), (34, 37416), (37, 37461), (39, 37476), (46, 37566),

Gene: Jerole_78 Start: 37465, Stop: 37710, Start Num: 24
Candidate Starts for Jerole_78:
(9, 37381), (Start: 24 @37465 has 9 MA's), (28, 37492), (29, 37501), (30, 37504), (32, 37534), (34, 37540), (37, 37585), (39, 37600), (43, 37651), (46, 37690),

Gene: Juno112_68 Start: 37637, Stop: 37861, Start Num: 26
Candidate Starts for Juno112_68:
(11, 37565), (Start: 26 @37637 has 3 MA's), (31, 37664), (34, 37697), (35, 37712), (41, 37784), (43, 37802), (44, 37814), (46, 37841),

Gene: KHumphrey_69 Start: 37510, Stop: 37734, Start Num: 26
Candidate Starts for KHumphrey_69:
(11, 37438), (18, 37483), (Start: 26 @37510 has 3 MA's), (31, 37537), (34, 37570), (35, 37585), (41, 37657), (43, 37675), (44, 37687), (46, 37714),

Gene: Kepler_74 Start: 37670, Stop: 37915, Start Num: 24
Candidate Starts for Kepler_74:
(9, 37586), (Start: 24 @37670 has 9 MA's), (28, 37697), (29, 37706), (30, 37709), (32, 37739), (34, 37745), (37, 37790), (39, 37805), (43, 37856), (46, 37895),

Gene: Kuleana_75 Start: 38064, Stop: 38273, Start Num: 25
Candidate Starts for Kuleana_75:
(3, 37878), (9, 37974), (12, 37995), (13, 37998), (21, 38055), (22, 38058), (Start: 24 @38061 has 9 MA's), (Start: 25 @38064 has 1 MA's), (Start: 27 @38082 has 2 MA's), (28, 38091), (29, 38100), (30, 38103), (31, 38106), (32, 38133), (34, 38139), (35, 38154), (42, 38232),

Gene: Lunar_72 Start: 37670, Stop: 37915, Start Num: 24
Candidate Starts for Lunar_72:
(9, 37586), (Start: 24 @37670 has 9 MA's), (28, 37697), (29, 37706), (30, 37709), (32, 37739), (34, 37745), (37, 37790), (39, 37805), (43, 37856), (46, 37895),

Gene: Melons_72 Start: 37679, Stop: 37924, Start Num: 24
Candidate Starts for Melons_72:
(9, 37595), (Start: 24 @37679 has 9 MA's), (28, 37706), (29, 37715), (30, 37718), (32, 37748), (34, 37754), (37, 37799), (39, 37814), (43, 37865), (46, 37904),

Gene: Orcanus_64 Start: 38537, Stop: 38737, Start Num: 27
Candidate Starts for Orcanus_64:
(5, 38348), (8, 38381), (10, 38435), (Start: 15 @38465 has 1 MA's), (17, 38483), (Start: 27 @38537 has 2 MA's), (31, 38564), (32, 38591), (36, 38636), (37, 38642), (40, 38672), (42, 38693), (45, 38732),

Gene: Polka_70 Start: 37295, Stop: 37540, Start Num: 24
Candidate Starts for Polka_70:
(9, 37211), (Start: 24 @37295 has 9 MA's), (28, 37322), (29, 37331), (30, 37334), (32, 37364), (34, 37370), (37, 37415), (39, 37430), (46, 37520),

Gene: RedFox_70 Start: 37895, Stop: 38119, Start Num: 26
Candidate Starts for RedFox_70:
(16, 37856), (20, 37877), (Start: 26 @37895 has 3 MA's), (31, 37922), (34, 37955), (35, 37970), (43, 38060), (44, 38072), (46, 38099),