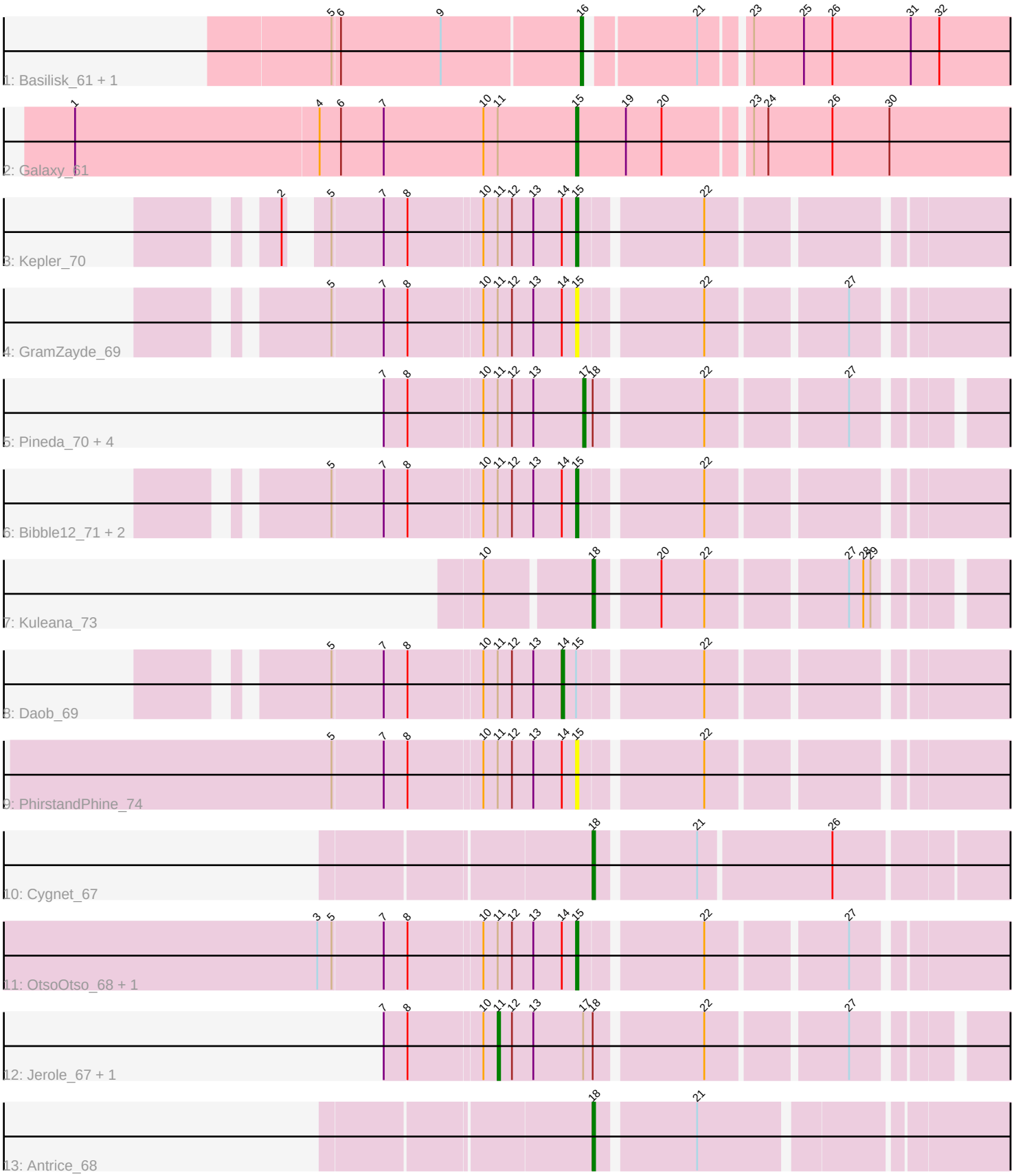
Pham 305308


1: Basilisk_61 + 1
2: Galaxy_61
3: Kepler_70
4: GramZayde_69
5: Pineda_70 + 4
6: Bibble12_71 + 2
7: Kuleana_73
8: Daob_69
9: PhirstandPhine_74
10: Cygnet_67
11: OtsoOtso_68 + 1
12: Jerole_67 + 1
13: Antrice_68

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 305308 Report

This analysis was run 06/08/26 on database version 649.

Pham number 305308 has 22 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Basilisk_61, Ruchi_60
• Track 2 : Galaxy_61
• Track 3 : Kepler_70
• Track 4 : GramZayde_69
• Track 5 : Pineda_70, Colusalem_68, Bedetta_72, Amelia_68, Damocles_71
• Track 6 : Bibble12_71, Cote_71, Coral_69
• Track 7 : Kuleana_73
• Track 8 : Daob_69
• Track 9 : PhirstandPhine_74
• Track 10 : Cygnet_67
• Track 11 : OtsoOtso_68, Polka_67
• Track 12 : Jerole_67, HannahPhantana_69
• Track 13 : Antrice_68

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

The start number called the most often in the published annotations is 15, it was called in 6 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bibble12_71, Coral_69, Cote_71, Galaxy_61, GramZayde_69, Kepler_70, OtsoOtso_68, PhirstandPhine_74, Polka_67,

Genes that have the "Most Annotated" start but do not call it:
• Daob_69,

Genes that do not have the "Most Annotated" start:
• Amelia_68, Antrice_68, Basilisk_61, Bedetta_72, Colusalem_68, Cygnet_67, Damocles_71, HannahPhantana_69, Jerole_67, Kuleana_73, Pineda_70, Ruchi_60,

Summary by start number:

Start 11:
• Found in 17 of 22 (77.3%) of genes in pham

• Manual Annotations of this start: 2 of 16
• Called 11.8% of time when present
• Phage (with cluster) where this start called: HannahPhantana_69 (AS2), Jerole_67 (AS2),

Start 14:
• Found in 9 of 22 (40.9%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 11.1% of time when present
• Phage (with cluster) where this start called: Daob_69 (AS2),

Start 15:
• Found in 10 of 22 (45.5%) of genes in pham
• Manual Annotations of this start: 6 of 16
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Bibble12_71 (AS2), Coral_69 (AS2), Cote_71 (AS2), Galaxy_61 (AS1), GramZayde_69 (AS2), Kepler_70 (AS2), OtsoOtso_68 (AS2), PhirstandPhine_74 (AS2), Polka_67 (AS2),

Start 16:
• Found in 2 of 22 (9.1%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Basilisk_61 (AS1), Ruchi_60 (AS1),

Start 17:
• Found in 7 of 22 (31.8%) of genes in pham
• Manual Annotations of this start: 2 of 16
• Called 71.4% of time when present
• Phage (with cluster) where this start called: Amelia_68 (AS2), Bedetta_72 (AS2), Colusalem_68 (AS2), Damocles_71 (AS2), Pineda_70 (AS2),

Start 18:
• Found in 10 of 22 (45.5%) of genes in pham
• Manual Annotations of this start: 3 of 16
• Called 30.0% of time when present
• Phage (with cluster) where this start called: Antrice_68 (AS2), Cygnet_67 (AS2), Kuleana_73 (AS2),

Summary by clusters:

There are 2 clusters represented in this pham: AS2, AS1,

Info for manual annotations of cluster AS1:
•Start number 15 was manually annotated 1 time for cluster AS1.
•Start number 16 was manually annotated 2 times for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 11 was manually annotated 2 times for cluster AS2.
•Start number 14 was manually annotated 1 time for cluster AS2.
•Start number 15 was manually annotated 5 times for cluster AS2.
•Start number 17 was manually annotated 2 times for cluster AS2.
•Start number 18 was manually annotated 3 times for cluster AS2.

Gene Information:

Gene: Amelia_68 Start: 36968, Stop: 37153, Start Num: 17
Candidate Starts for Amelia_68:
(7, 36887), (8, 36896), (10, 36926), (Start: 11 @36932 has 2 MA's), (12, 36938), (13, 36947), (Start: 17 @36968 has 2 MA's), (Start: 18 @36971 has 3 MA's), (22, 37013), (27, 37067),

Gene: Antrice_68 Start: 37239, Stop: 37424, Start Num: 18
Candidate Starts for Antrice_68:
(Start: 18 @37239 has 3 MA's), (21, 37278),

Gene: Basilisk_61 Start: 37058, Stop: 37255, Start Num: 16
Candidate Starts for Basilisk_61:
(5, 36956), (6, 36959), (9, 37001), (Start: 16 @37058 has 2 MA's), (21, 37100), (23, 37118), (25, 37139), (26, 37151), (31, 37184), (32, 37196),

Gene: Bedetta_72 Start: 37131, Stop: 37316, Start Num: 17
Candidate Starts for Bedetta_72:
(7, 37050), (8, 37059), (10, 37089), (Start: 11 @37095 has 2 MA's), (12, 37101), (13, 37110), (Start: 17 @37131 has 2 MA's), (Start: 18 @37134 has 3 MA's), (22, 37176), (27, 37230),

Gene: Bibble12_71 Start: 37260, Stop: 37454, Start Num: 15
Candidate Starts for Bibble12_71:
(5, 37161), (7, 37182), (8, 37191), (10, 37221), (Start: 11 @37227 has 2 MA's), (12, 37233), (13, 37242), (Start: 14 @37254 has 1 MA's), (Start: 15 @37260 has 6 MA's), (22, 37308),

Gene: Colusalem_68 Start: 36945, Stop: 37130, Start Num: 17
Candidate Starts for Colusalem_68:
(7, 36864), (8, 36873), (10, 36903), (Start: 11 @36909 has 2 MA's), (12, 36915), (13, 36924), (Start: 17 @36945 has 2 MA's), (Start: 18 @36948 has 3 MA's), (22, 36990), (27, 37044),

Gene: Coral_69 Start: 37151, Stop: 37345, Start Num: 15
Candidate Starts for Coral_69:
(5, 37052), (7, 37073), (8, 37082), (10, 37112), (Start: 11 @37118 has 2 MA's), (12, 37124), (13, 37133), (Start: 14 @37145 has 1 MA's), (Start: 15 @37151 has 6 MA's), (22, 37199),

Gene: Cote_71 Start: 37603, Stop: 37797, Start Num: 15
Candidate Starts for Cote_71:
(5, 37504), (7, 37525), (8, 37534), (10, 37564), (Start: 11 @37570 has 2 MA's), (12, 37576), (13, 37585), (Start: 14 @37597 has 1 MA's), (Start: 15 @37603 has 6 MA's), (22, 37651),

Gene: Cygnet_67 Start: 37729, Stop: 37917, Start Num: 18
Candidate Starts for Cygnet_67:
(Start: 18 @37729 has 3 MA's), (21, 37768), (26, 37822),

Gene: Damocles_71 Start: 37104, Stop: 37289, Start Num: 17
Candidate Starts for Damocles_71:
(7, 37023), (8, 37032), (10, 37062), (Start: 11 @37068 has 2 MA's), (12, 37074), (13, 37083), (Start: 17 @37104 has 2 MA's), (Start: 18 @37107 has 3 MA's), (22, 37149), (27, 37203),

Gene: Daob_69 Start: 36940, Stop: 37140, Start Num: 14
Candidate Starts for Daob_69:
(5, 36847), (7, 36868), (8, 36877), (10, 36907), (Start: 11 @36913 has 2 MA's), (12, 36919), (13, 36928), (Start: 14 @36940 has 1 MA's), (Start: 15 @36946 has 6 MA's), (22, 36994),

Gene: Galaxy_61 Start: 36357, Stop: 36563, Start Num: 15
Candidate Starts for Galaxy_61:
(1, 36147), (4, 36249), (6, 36258), (7, 36276), (10, 36318), (Start: 11 @36324 has 2 MA's), (Start: 15 @36357 has 6 MA's), (19, 36378), (20, 36393), (23, 36426), (24, 36432), (26, 36459), (30, 36483),

Gene: GramZayde_69 Start: 37432, Stop: 37620, Start Num: 15
Candidate Starts for GramZayde_69:
(5, 37333), (7, 37354), (8, 37363), (10, 37393), (Start: 11 @37399 has 2 MA's), (12, 37405), (13, 37414), (Start: 14 @37426 has 1 MA's), (Start: 15 @37432 has 6 MA's), (22, 37480), (27, 37534),

Gene: HannahPhantana_69 Start: 36927, Stop: 37148, Start Num: 11
Candidate Starts for HannahPhantana_69:
(7, 36882), (8, 36891), (10, 36921), (Start: 11 @36927 has 2 MA's), (12, 36933), (13, 36942), (Start: 17 @36963 has 2 MA's), (Start: 18 @36966 has 3 MA's), (22, 37008), (27, 37062),

Gene: Jerole_67 Start: 37051, Stop: 37272, Start Num: 11
Candidate Starts for Jerole_67:
(7, 37006), (8, 37015), (10, 37045), (Start: 11 @37051 has 2 MA's), (12, 37057), (13, 37066), (Start: 17 @37087 has 2 MA's), (Start: 18 @37090 has 3 MA's), (22, 37132), (27, 37186),

Gene: Kepler_70 Start: 36934, Stop: 37122, Start Num: 15
Candidate Starts for Kepler_70:
(2, 36826), (5, 36835), (7, 36856), (8, 36865), (10, 36895), (Start: 11 @36901 has 2 MA's), (12, 36907), (13, 36916), (Start: 14 @36928 has 1 MA's), (Start: 15 @36934 has 6 MA's), (22, 36982),

Gene: Kuleana_73 Start: 37808, Stop: 37984, Start Num: 18
Candidate Starts for Kuleana_73:
(10, 37766), (Start: 18 @37808 has 3 MA's), (20, 37832), (22, 37850), (27, 37904), (28, 37910), (29, 37913),

Gene: OtsoOtso_68 Start: 36693, Stop: 36881, Start Num: 15
Candidate Starts for OtsoOtso_68:
(3, 36588), (5, 36594), (7, 36615), (8, 36624), (10, 36654), (Start: 11 @36660 has 2 MA's), (12, 36666), (13, 36675), (Start: 14 @36687 has 1 MA's), (Start: 15 @36693 has 6 MA's), (22, 36741), (27, 36795),

Gene: PhirstandPhine_74 Start: 36879, Stop: 37073, Start Num: 15
Candidate Starts for PhirstandPhine_74:
(5, 36780), (7, 36801), (8, 36810), (10, 36840), (Start: 11 @36846 has 2 MA's), (12, 36852), (13, 36861), (Start: 14 @36873 has 1 MA's), (Start: 15 @36879 has 6 MA's), (22, 36927),

Gene: Pineda_70 Start: 37128, Stop: 37310, Start Num: 17
Candidate Starts for Pineda_70:
(7, 37047), (8, 37056), (10, 37086), (Start: 11 @37092 has 2 MA's), (12, 37098), (13, 37107), (Start: 17 @37128 has 2 MA's), (Start: 18 @37131 has 3 MA's), (22, 37173), (27, 37227),

Gene: Polka_67 Start: 36693, Stop: 36881, Start Num: 15
Candidate Starts for Polka_67:

(3, 36588), (5, 36594), (7, 36615), (8, 36624), (10, 36654), (Start: 11 @36660 has 2 MA's), (12, 36666), (13, 36675), (Start: 14 @36687 has 1 MA's), (Start: 15 @36693 has 6 MA's), (22, 36741), (27, 36795),

Gene: Ruchi_60 Start: 36980, Stop: 37177, Start Num: 16
Candidate Starts for Ruchi_60:
(5, 36878), (6, 36881), (9, 36923), (Start: 16 @36980 has 2 MA's), (21, 37022), (23, 37040), (25, 37061), (26, 37073), (31, 37106), (32, 37118),