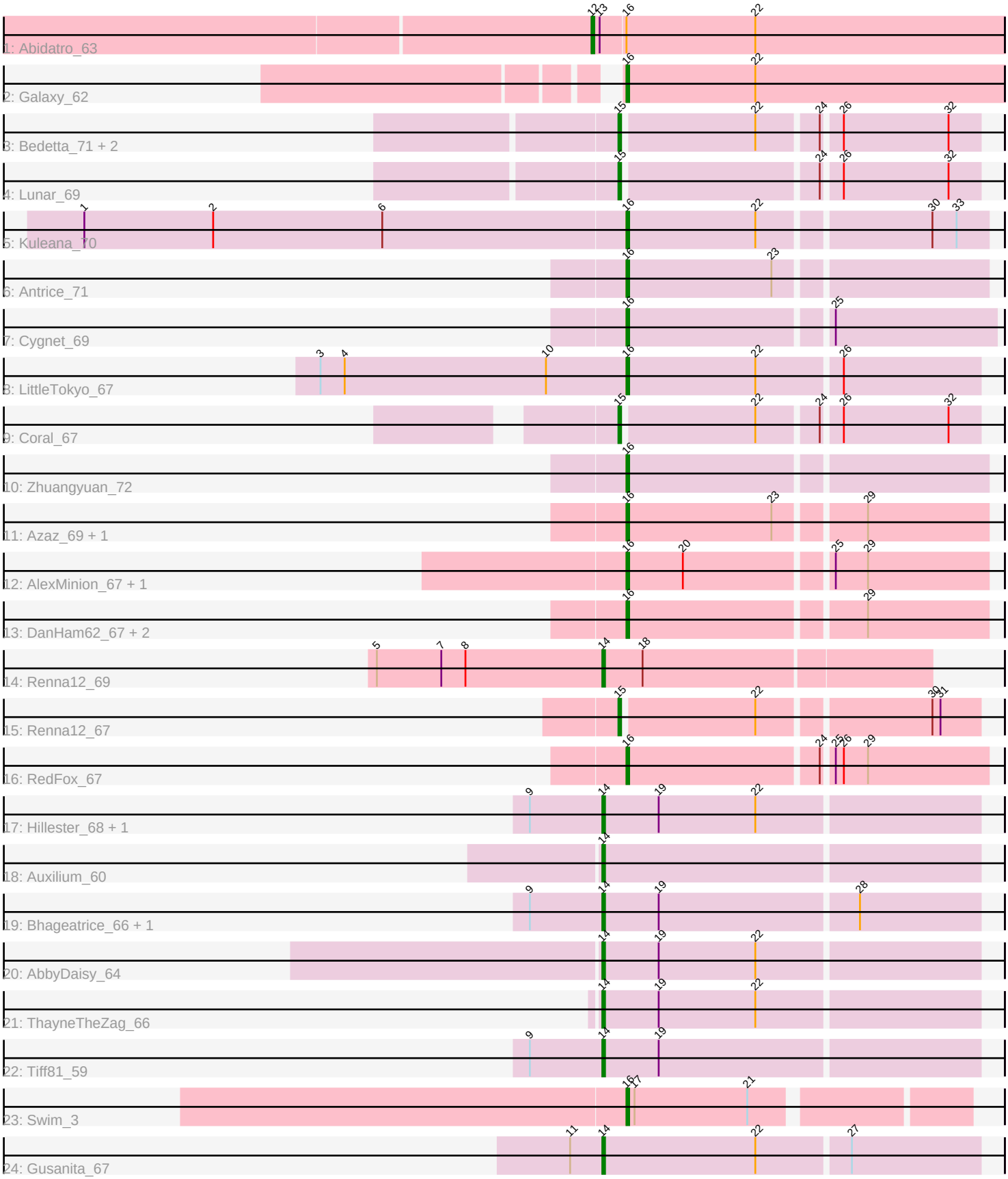
Pham 291389


1: Abidatro_63
2: Galaxy_62
3: Bedetta_71 + 2
4: Lunar_69
5: Kuleana_70
6: Antrice_71
7: Cygnet_69
8: LittleTokyo_67
9: Coral_67
10: Zhuangyuan_72
11: Azaz_69 + 1
12: AlexMinion_67 + 1
13: DanHam62_67 + 2
14: Renna12_69
15: Renna12_67
16: RedFox_67
17: Hillester_68 + 1
18: Auxilium_60
19: Bhageatrice_66 + 1
20: AbbyDaisy_64
21: ThayneTheZag_66
22: Tiff81_59
23: Swim_3
24: Gusanita_67

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 291389 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291389 has 32 members, 4 are drafts.

Phages represented in each track:
- Track 1 : Abidatro_63
- Track 2 : Galaxy_62
- Track 3 : Bedetta_71, HannahPhantana_68, Amelia_66
- Track 4 : Lunar_69
- Track 5 : Kuleana_70
- Track 6 : Antrice_71
- Track 7 : Cygnet_69
- Track 8 : LittleTokyo_67
- Track 9 : Coral_67
- Track 10 : Zhuangyuan_72
- Track 11 : Azaz_69, Leona_65
- Track 12 : AlexMinion_67, StuartMinion_57
- Track 13 : DanHam62_67, Fingolfin_67, Juno112_66
- Track 14 : Renna12_69
- Track 15 : Renna12_67
- Track 16 : RedFox_67
- Track 17 : Hillester_68, RadFad_68
- Track 18 : Auxilium_60
- Track 19 : Bhageatrice_66, Seahorse_66
- Track 20 : AbbyDaisy_64
- Track 21 : ThayneTheZag_66
- Track 22 : Tiff81_59
- Track 23 : Swim_3
- Track 24 : Gusanita_67

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

The start number called the most often in the published annotations is 16, it was called in 12 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- AlexMinion_67, Antrice_71, Azaz_69, Cygnet_69, DanHam62_67, Fingolfin_67, Galaxy_62, Juno112_66, Kuleana_70, Leona_65, LittleTokyo_67, RedFox_67, StuartMinion_57, Swim_3, Zhuangyuan_72,

Genes that have the "Most Annotated" start but do not call it:
• Abidatro_63,

Genes that do not have the "Most Annotated" start:
• AbbyDaisy_64, Amelia_66, Auxilium_60, Bedetta_71, Bhageatrice_66, Coral_67, Gusanita_67, HannahPhantana_68, Hillester_68, Lunar_69, RadFad_68, Renna12_67, Renna12_69, Seahorse_66, ThayneTheZag_66, Tiff81_59,

Summary by start number:

Start 12:
• Found in 1 of 32 (3.1%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Abidatro_63 (AS1),

Start 14:
• Found in 10 of 32 (31.2%) of genes in pham
• Manual Annotations of this start: 10 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AbbyDaisy_64 (AY), Auxilium_60 (AY), Bhageatrice_66 (AY), Gusanita_67 (FF), Hillester_68 (AY), RadFad_68 (AY), Renna12_69 (AS3), Seahorse_66 (AY), ThayneTheZag_66 (AY), Tiff81_59 (AY),

Start 15:
• Found in 6 of 32 (18.8%) of genes in pham
• Manual Annotations of this start: 5 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amelia_66 (AS2), Bedetta_71 (AS2), Coral_67 (AS2), HannahPhantana_68 (AS2), Lunar_69 (AS2), Renna12_67 (AS3),

Start 16:
• Found in 16 of 32 (50.0%) of genes in pham
• Manual Annotations of this start: 12 of 28
• Called 93.8% of time when present
• Phage (with cluster) where this start called: AlexMinion_67 (AS3), Antrice_71 (AS2), Azaz_69 (AS3), Cygnet_69 (AS2), DanHam62_67 (AS3), Fingolfin_67 (AS3), Galaxy_62 (AS1), Juno112_66 (AS3), Kuleana_70 (AS2), Leona_65 (AS3), LittleTokyo_67 (AS2), RedFox_67 (AS3), StuartMinion_57 (AS3), Swim_3 (FD), Zhuangyuan_72 (AS2),

Summary by clusters:

There are 6 clusters represented in this pham: AS3, AS2, AS1, FD, FF, AY,

Info for manual annotations of cluster AS1:
•Start number 12 was manually annotated 1 time for cluster AS1.
•Start number 16 was manually annotated 1 time for cluster AS1.

Info for manual annotations of cluster AS2:
•Start number 15 was manually annotated 4 times for cluster AS2.
•Start number 16 was manually annotated 5 times for cluster AS2.

Info for manual annotations of cluster AS3:
•Start number 14 was manually annotated 1 time for cluster AS3.
•Start number 15 was manually annotated 1 time for cluster AS3.
•Start number 16 was manually annotated 5 times for cluster AS3.

Info for manual annotations of cluster AY:
•Start number 14 was manually annotated 8 times for cluster AY.

Info for manual annotations of cluster FD:
•Start number 16 was manually annotated 1 time for cluster FD.

Info for manual annotations of cluster FF:
•Start number 14 was manually annotated 1 time for cluster FF.

Gene Information:

Gene: AbbyDaisy_64 Start: 35318, Stop: 35455, Start Num: 14
Candidate Starts for AbbyDaisy_64:
(Start: 14 @35318 has 10 MA's), (19, 35339), (22, 35375),

Gene: Abidatro_63 Start: 37722, Stop: 37874, Start Num: 12
Candidate Starts for Abidatro_63:
(Start: 12 @37722 has 1 MA's), (13, 37725), (Start: 16 @37734 has 12 MA's), (22, 37782),

Gene: AlexMinion_67 Start: 36986, Stop: 37114, Start Num: 16
Candidate Starts for AlexMinion_67:
(Start: 16 @36986 has 12 MA's), (20, 37007), (25, 37058), (29, 37070),

Gene: Amelia_66 Start: 36727, Stop: 36852, Start Num: 15
Candidate Starts for Amelia_66:
(Start: 15 @36727 has 5 MA's), (22, 36775), (24, 36796), (26, 36802), (32, 36841),

Gene: Antrice_71 Start: 37839, Stop: 37967, Start Num: 16
Candidate Starts for Antrice_71:
(Start: 16 @37839 has 12 MA's), (23, 37893),

Gene: Auxilium_60 Start: 32290, Stop: 32427, Start Num: 14
Candidate Starts for Auxilium_60:
(Start: 14 @32290 has 10 MA's),

Gene: Azaz_69 Start: 37503, Stop: 37631, Start Num: 16
Candidate Starts for Azaz_69:
(Start: 16 @37503 has 12 MA's), (23, 37557), (29, 37587),

Gene: Bedetta_71 Start: 36890, Stop: 37015, Start Num: 15
Candidate Starts for Bedetta_71:
(Start: 15 @36890 has 5 MA's), (22, 36938), (24, 36959), (26, 36965), (32, 37004),

Gene: Bhageatrice_66 Start: 37131, Stop: 37268, Start Num: 14
Candidate Starts for Bhageatrice_66:

(9, 37104), (Start: 14 @37131 has 10 MA's), (19, 37152), (28, 37224),

Gene: Coral_67 Start: 36913, Stop: 37038, Start Num: 15
Candidate Starts for Coral_67:
(Start: 15 @36913 has 5 MA's), (22, 36961), (24, 36982), (26, 36988), (32, 37027),

Gene: Cygnet_69 Start: 38186, Stop: 38317, Start Num: 16
Candidate Starts for Cygnet_69:
(Start: 16 @38186 has 12 MA's), (25, 38258),

Gene: DanHam62_67 Start: 37421, Stop: 37549, Start Num: 16
Candidate Starts for DanHam62_67:
(Start: 16 @37421 has 12 MA's), (29, 37505),

Gene: Fingolfin_67 Start: 37424, Stop: 37552, Start Num: 16
Candidate Starts for Fingolfin_67:
(Start: 16 @37424 has 12 MA's), (29, 37508),

Gene: Galaxy_62 Start: 36560, Stop: 36700, Start Num: 16
Candidate Starts for Galaxy_62:
(Start: 16 @36560 has 12 MA's), (22, 36608),

Gene: Gusanita_67 Start: 41673, Stop: 41810, Start Num: 14
Candidate Starts for Gusanita_67:
(11, 41661), (Start: 14 @41673 has 10 MA's), (22, 41730), (27, 41763),

Gene: HannahPhantana_68 Start: 36722, Stop: 36847, Start Num: 15
Candidate Starts for HannahPhantana_68:
(Start: 15 @36722 has 5 MA's), (22, 36770), (24, 36791), (26, 36797), (32, 36836),

Gene: Hillester_68 Start: 35895, Stop: 36032, Start Num: 14
Candidate Starts for Hillester_68:
(9, 35868), (Start: 14 @35895 has 10 MA's), (19, 35916), (22, 35952),

Gene: Juno112_66 Start: 37424, Stop: 37552, Start Num: 16
Candidate Starts for Juno112_66:
(Start: 16 @37424 has 12 MA's), (29, 37508),

Gene: Kuleana_70 Start: 37424, Stop: 37552, Start Num: 16
Candidate Starts for Kuleana_70:
(1, 37223), (2, 37271), (6, 37334), (Start: 16 @37424 has 12 MA's), (22, 37472), (30, 37532), (33, 37541),

Gene: Leona_65 Start: 37507, Stop: 37635, Start Num: 16
Candidate Starts for Leona_65:
(Start: 16 @37507 has 12 MA's), (23, 37561), (29, 37591),

Gene: LittleTokyo_67 Start: 36418, Stop: 36546, Start Num: 16
Candidate Starts for LittleTokyo_67:
(3, 36304), (4, 36313), (10, 36388), (Start: 16 @36418 has 12 MA's), (22, 36466), (26, 36496),

Gene: Lunar_69 Start: 37045, Stop: 37170, Start Num: 15
Candidate Starts for Lunar_69:

(Start: 15 @37045 has 5 MA's), (24, 37114), (26, 37120), (32, 37159),

Gene: RadFad_68 Start: 35895, Stop: 36032, Start Num: 14
Candidate Starts for RadFad_68:
(9, 35868), (Start: 14 @35895 has 10 MA's), (19, 35916), (22, 35952),

Gene: RedFox_67 Start: 37521, Stop: 37649, Start Num: 16
Candidate Starts for RedFox_67:
(Start: 16 @37521 has 12 MA's), (24, 37590), (25, 37593), (26, 37596), (29, 37605),

Gene: Renna12_69 Start: 38028, Stop: 38147, Start Num: 14
Candidate Starts for Renna12_69:
(5, 37944), (7, 37968), (8, 37977), (Start: 14 @38028 has 10 MA's), (18, 38043),

Gene: Renna12_67 Start: 37634, Stop: 37759, Start Num: 15
Candidate Starts for Renna12_67:
(Start: 15 @37634 has 5 MA's), (22, 37682), (30, 37742), (31, 37745),

Gene: Seahorse_66 Start: 36402, Stop: 36539, Start Num: 14
Candidate Starts for Seahorse_66:
(9, 36375), (Start: 14 @36402 has 10 MA's), (19, 36423), (28, 36495),

Gene: StuartMinion_57 Start: 33885, Stop: 34013, Start Num: 16
Candidate Starts for StuartMinion_57:
(Start: 16 @33885 has 12 MA's), (20, 33906), (25, 33957), (29, 33969),

Gene: Swim_3 Start: 1143, Stop: 1024, Start Num: 16
Candidate Starts for Swim_3:
(Start: 16 @1143 has 12 MA's), (17, 1140), (21, 1098),

Gene: ThayneTheZag_66 Start: 34569, Stop: 34706, Start Num: 14
Candidate Starts for ThayneTheZag_66:
(Start: 14 @34569 has 10 MA's), (19, 34590), (22, 34626),

Gene: Tiff81_59 Start: 32815, Stop: 32952, Start Num: 14
Candidate Starts for Tiff81_59:
(9, 32788), (Start: 14 @32815 has 10 MA's), (19, 32836),

Gene: Zhuangyuan_72 Start: 38420, Stop: 38548, Start Num: 16
Candidate Starts for Zhuangyuan_72:
(Start: 16 @38420 has 12 MA's),