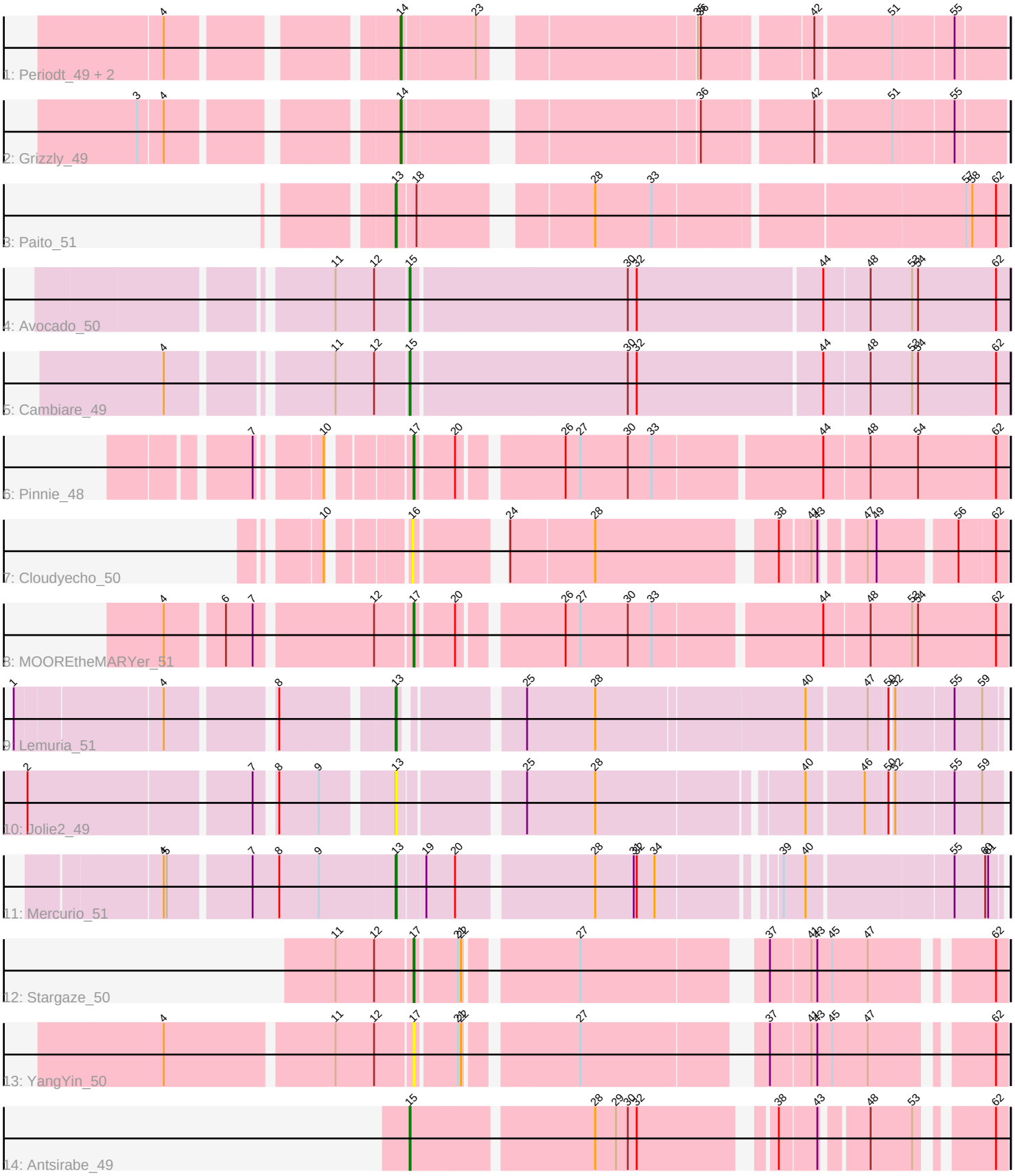
Pham 247447


1: Periodt_49 + 2
2: Grizzly_49
3: Paito_51
4: Avocado_50
5: Cambiare_49
6: Pinnie_48
7: Cloudyecho_50
8: MOOREtheMARYer_51
9: Lemuria_51
10: Jolie2_49
11: Mercurio_51
12: Stargaze_50
13: YangYin_50
14: Antsirabe_49

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 247447 Report

This analysis was run 02/07/26 on database version 634.

Pham number 247447 has 16 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Periodt_49, Jolene_49, Rattrick_49
• Track 2 : Grizzly_49
• Track 3 : Paito_51
• Track 4 : Avocado_50
• Track 5 : Cambiare_49
• Track 6 : Pinnie_48
• Track 7 : Cloudyecho_50
• Track 8 : MOOREtheMARYer_51
• Track 9 : Lemuria_51
• Track 10 : Jolie2_49
• Track 11 : Mercurio_51
• Track 12 : Stargaze_50
• Track 13 : YangYin_50
• Track 14 : Antsirabe_49

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

The start number called the most often in the published annotations is 14, it was called in 3 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Grizzly_49, Jolene_49, Periodt_49, Rattrick_49,

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

Genes that do not have the "Most Annotated" start:
• Antsirabe_49, Avocado_50, Cambiare_49, Cloudyecho_50, Jolie2_49, Lemuria_51, MOOREtheMARYer_51, Mercurio_51, Paito_51, Pinnie_48, Stargaze_50, YangYin_50,

Summary by start number:

Start 13:

• Found in 4 of 16 (25.0%) of genes in pham
• Manual Annotations of this start: 3 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jolie2_49 (G4), Lemuria_51 (G4), Mercurio_51 (G4), Paito_51 (G1),

Start 14:
• Found in 4 of 16 (25.0%) of genes in pham
• Manual Annotations of this start: 3 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Grizzly_49 (G1), Jolene_49 (G1), Periodt_49 (G1), Rattrick_49 (G1),

Start 15:
• Found in 3 of 16 (18.8%) of genes in pham
• Manual Annotations of this start: 3 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Antsirabe_49 (G5), Avocado_50 (G2), Cambiare_49 (G2),

Start 16:
• Found in 1 of 16 (6.2%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Cloudyecho_50 (G3),

Start 17:
• Found in 4 of 16 (25.0%) of genes in pham
• Manual Annotations of this start: 3 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MOOREtheMARYer_51 (G3), Pinnie_48 (G3), Stargaze_50 (G5), YangYin_50 (G5),

Summary by clusters:

There are 5 clusters represented in this pham: G5, G4, G3, G2, G1,

Info for manual annotations of cluster G1:
•Start number 13 was manually annotated 1 time for cluster G1.
•Start number 14 was manually annotated 3 times for cluster G1.

Info for manual annotations of cluster G2:
•Start number 15 was manually annotated 2 times for cluster G2.

Info for manual annotations of cluster G3:
•Start number 17 was manually annotated 2 times for cluster G3.

Info for manual annotations of cluster G4:
•Start number 13 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:
•Start number 15 was manually annotated 1 time for cluster G5.
•Start number 17 was manually annotated 1 time for cluster G5.

Gene Information:

Gene: Antsirabe_49 Start: 37173, Stop: 37691, Start Num: 15
Candidate Starts for Antsirabe_49:
(Start: 15 @37173 has 3 MA's), (28, 37347), (29, 37368), (30, 37380), (32, 37389), (38, 37506), (43, 37542), (48, 37581), (53, 37623), (62, 37680),

Gene: Avocado_50 Start: 38044, Stop: 38634, Start Num: 15
Candidate Starts for Avocado_50:
(11, 37972), (12, 38011), (Start: 15 @38044 has 3 MA's), (30, 38257), (32, 38266), (44, 38449), (48, 38494), (53, 38536), (54, 38542), (62, 38620),

Gene: Cambiare_49 Start: 37805, Stop: 38395, Start Num: 15
Candidate Starts for Cambiare_49:
(4, 37586), (11, 37733), (12, 37772), (Start: 15 @37805 has 3 MA's), (30, 38018), (32, 38027), (44, 38210), (48, 38255), (53, 38297), (54, 38303), (62, 38381),

Gene: Cloudyecho_50 Start: 37901, Stop: 38416, Start Num: 16
Candidate Starts for Cloudyecho_50:
(10, 37838), (16, 37901), (24, 37973), (28, 38054), (38, 38219), (41, 38246), (43, 38252), (47, 38288), (49, 38297), (56, 38369), (62, 38405),

Gene: Grizzly_49 Start: 36013, Stop: 36549, Start Num: 14
Candidate Starts for Grizzly_49:
(3, 35791), (4, 35815), (Start: 14 @36013 has 3 MA's), (36, 36271), (42, 36373), (51, 36445), (55, 36502),

Gene: Jolene_49 Start: 36037, Stop: 36570, Start Num: 14
Candidate Starts for Jolene_49:
(4, 35839), (Start: 14 @36037 has 3 MA's), (23, 36106), (35, 36292), (36, 36295), (42, 36394), (51, 36466), (55, 36523),

Gene: Jolie2_49 Start: 36690, Stop: 37238, Start Num: 13
Candidate Starts for Jolie2_49:
(2, 36357), (7, 36573), (8, 36588), (9, 36627), (Start: 13 @36690 has 3 MA's), (25, 36798), (28, 36867), (40, 37059), (46, 37113), (50, 37134), (52, 37137), (55, 37191), (59, 37218),

Gene: Lemuria_51 Start: 38001, Stop: 38552, Start Num: 13
Candidate Starts for Lemuria_51:
(1, 37662), (4, 37803), (8, 37899), (Start: 13 @38001 has 3 MA's), (25, 38103), (28, 38172), (40, 38376), (47, 38433), (50, 38451), (52, 38454), (55, 38508), (59, 38535),

Gene: MOOREtheMARYer_51 Start: 37676, Stop: 38230, Start Num: 17
Candidate Starts for MOOREtheMARYer_51:
(4, 37448), (6, 37502), (7, 37529), (12, 37640), (Start: 17 @37676 has 3 MA's), (20, 37712), (26, 37802), (27, 37817), (30, 37865), (33, 37889), (44, 38048), (48, 38093), (53, 38135), (54, 38141), (62, 38219),

Gene: Mercurio_51 Start: 38400, Stop: 38945, Start Num: 13
Candidate Starts for Mercurio_51:

(4, 38178), (5, 38181), (7, 38259), (8, 38286), (9, 38325), (Start: 13 @38400 has 3 MA's), (19, 38424), (20, 38451), (28, 38580), (31, 38619), (32, 38622), (34, 38640), (39, 38742), (40, 38763), (55, 38901), (60, 38931), (61, 38934),

Gene: Paito_51 Start: 36614, Stop: 37171, Start Num: 13
Candidate Starts for Paito_51:
(Start: 13 @36614 has 3 MA's), (18, 36632), (28, 36779), (33, 36836), (57, 37130), (58, 37136), (62, 37160),

Gene: Periodt_49 Start: 36028, Stop: 36561, Start Num: 14
Candidate Starts for Periodt_49:
(4, 35830), (Start: 14 @36028 has 3 MA's), (23, 36097), (35, 36283), (36, 36286), (42, 36385), (51, 36457), (55, 36514),

Gene: Pinnie_48 Start: 37194, Stop: 37751, Start Num: 17
Candidate Starts for Pinnie_48:
(7, 37077), (10, 37128), (Start: 17 @37194 has 3 MA's), (20, 37230), (26, 37320), (27, 37335), (30, 37383), (33, 37407), (44, 37569), (48, 37614), (54, 37662), (62, 37740),

Gene: Rattrick_49 Start: 36028, Stop: 36561, Start Num: 14
Candidate Starts for Rattrick_49:
(4, 35830), (Start: 14 @36028 has 3 MA's), (23, 36097), (35, 36283), (36, 36286), (42, 36385), (51, 36457), (55, 36514),

Gene: Stargaze_50 Start: 37442, Stop: 37954, Start Num: 17
Candidate Starts for Stargaze_50:
(11, 37367), (12, 37406), (Start: 17 @37442 has 3 MA's), (21, 37481), (22, 37484), (27, 37583), (37, 37745), (41, 37784), (43, 37790), (45, 37805), (47, 37841), (62, 37943),

Gene: YangYin_50 Start: 37463, Stop: 37975, Start Num: 17
Candidate Starts for YangYin_50:
(4, 37226), (11, 37388), (12, 37427), (Start: 17 @37463 has 3 MA's), (21, 37502), (22, 37505), (27, 37604), (37, 37766), (41, 37805), (43, 37811), (45, 37826), (47, 37862), (62, 37964),