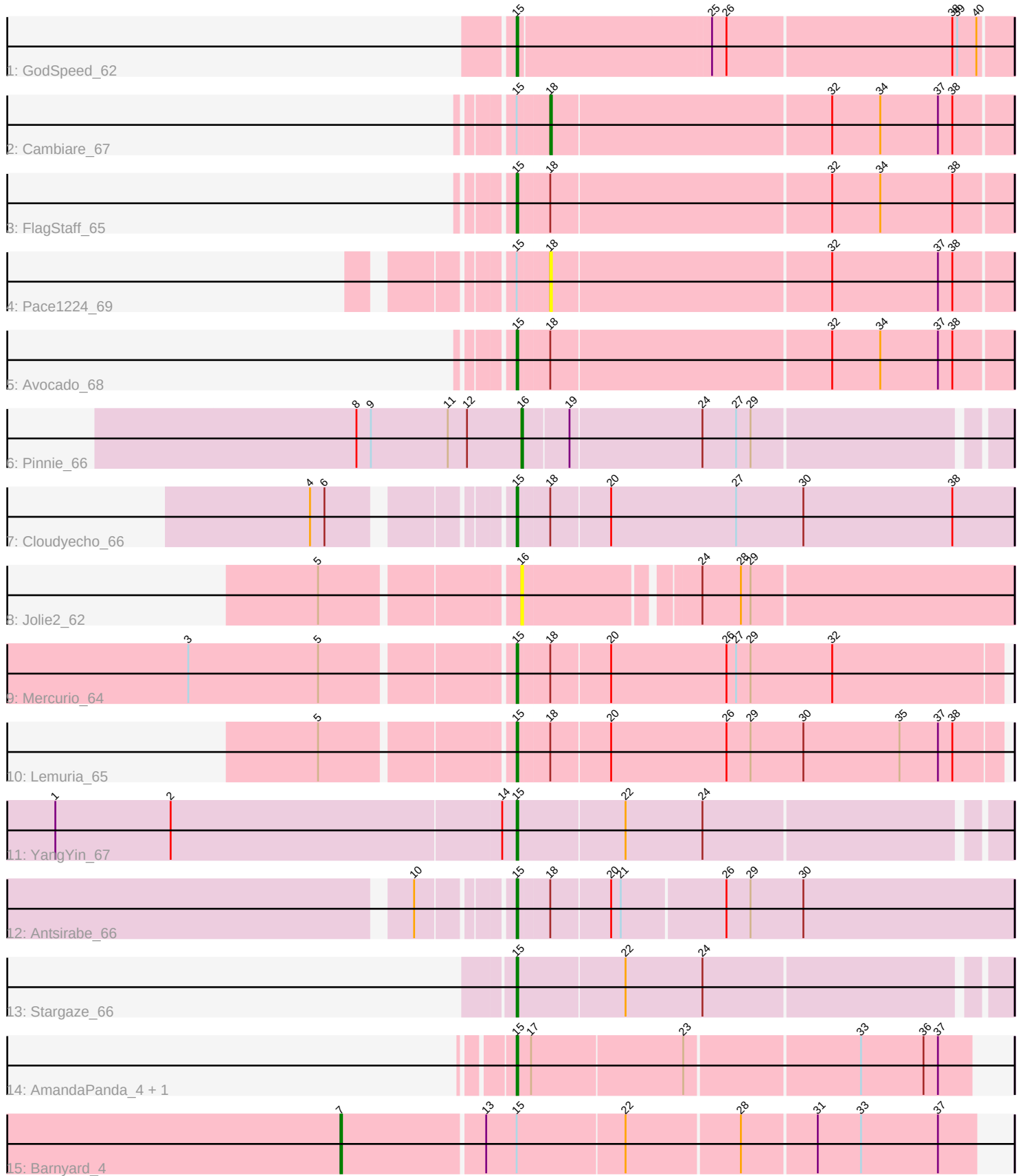


Pham 331351



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 331351 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331351 has 16 members, 3 are drafts.

Phages represented in each track:

- Track 1 : GodSpeed_62
- Track 2 : Cambiare_67
- Track 3 : FlagStaff_65
- Track 4 : Pace1224_69
- Track 5 : Avocado_68
- Track 6 : Pinnie_66
- Track 7 : Cloudyecho_66
- Track 8 : Jolie2_62
- Track 9 : Mercurio_64
- Track 10 : Lemuria_65
- Track 11 : YangYin_67
- Track 12 : Antsirabe_66
- Track 13 : Stargaze_66
- Track 14 : AmandaPanda_4, DrLupo_4
- Track 15 : Barnyard_4

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 10 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AmandaPanda_4, Antsirabe_66, Avocado_68, Cloudyecho_66, DrLupo_4, FlagStaff_65, GodSpeed_62, Lemuria_65, Mercurio_64, Stargaze_66, YangYin_67,

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

- Barnyard_4, Cambiare_67, Pace1224_69,

Genes that do not have the "Most Annotated" start:

- Jolie2_62, Pinnie_66,

Summary by start number:

Start 7:

- Found in 1 of 16 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barnyard_4 (H2),

Start 15:

- Found in 14 of 16 (87.5%) of genes in pham
- Manual Annotations of this start: 10 of 13
- Called 78.6% of time when present
- Phage (with cluster) where this start called: AmandaPanda_4 (H2), Antsirabe_66 (G5), Avocado_68 (G2), Cloudyecho_66 (G3), DrLupo_4 (H2), FlagStaff_65 (G2), GodSpeed_62 (G2), Lemuria_65 (G4), Mercurio_64 (G4), Stargaze_66 (G5), YangYin_67 (G5),

Start 16:

- Found in 2 of 16 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jolie2_62 (G4), Pinnie_66 (G3),

Start 18:

- Found in 8 of 16 (50.0%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Cambiare_67 (G2), Pace1224_69 (G2),

Summary by clusters:

There are 5 clusters represented in this pham: H2, G5, G4, G3, G2,

Info for manual annotations of cluster G2:

- Start number 15 was manually annotated 3 times for cluster G2.
- Start number 18 was manually annotated 1 time for cluster G2.

Info for manual annotations of cluster G3:

- Start number 15 was manually annotated 1 time for cluster G3.
- Start number 16 was manually annotated 1 time for cluster G3.

Info for manual annotations of cluster G4:

- Start number 15 was manually annotated 2 times for cluster G4.

Info for manual annotations of cluster G5:

- Start number 15 was manually annotated 3 times for cluster G5.

Info for manual annotations of cluster H2:

- Start number 7 was manually annotated 1 time for cluster H2.
- Start number 15 was manually annotated 1 time for cluster H2.

Gene Information:

Gene: AmandaPanda_4 Start: 2032, Stop: 2307, Start Num: 15

Candidate Starts for AmandaPanda_4:

(Start: 15 @2032 has 10 MA's), (17, 2041), (23, 2134), (33, 2239), (36, 2278), (37, 2287),

Gene: Antsirabe_66 Start: 44402, Stop: 44704, Start Num: 15

Candidate Starts for Antsirabe_66:

(10, 44351), (Start: 15 @44402 has 10 MA's), (Start: 18 @44420 has 1 MA's), (20, 44456), (21, 44462), (26, 44525), (29, 44540), (30, 44573),

Gene: Avocado_68 Start: 45054, Stop: 45353, Start Num: 15

Candidate Starts for Avocado_68:

(Start: 15 @45054 has 10 MA's), (Start: 18 @45072 has 1 MA's), (32, 45243), (34, 45273), (37, 45309), (38, 45318),

Gene: Barnyard_4 Start: 1956, Stop: 2339, Start Num: 7

Candidate Starts for Barnyard_4:

(Start: 7 @1956 has 1 MA's), (13, 2043), (Start: 15 @2061 has 10 MA's), (22, 2127), (28, 2196), (31, 2241), (33, 2268), (37, 2316),

Gene: Cambiare_67 Start: 44844, Stop: 45125, Start Num: 18

Candidate Starts for Cambiare_67:

(Start: 15 @44826 has 10 MA's), (Start: 18 @44844 has 1 MA's), (32, 45015), (34, 45045), (37, 45081), (38, 45090),

Gene: Cloudyecho_66 Start: 44858, Stop: 45163, Start Num: 15

Candidate Starts for Cloudyecho_66:

(4, 44756), (6, 44765), (Start: 15 @44858 has 10 MA's), (Start: 18 @44876 has 1 MA's), (20, 44912), (27, 44990), (30, 45032), (38, 45125),

Gene: DrLupo_4 Start: 2032, Stop: 2307, Start Num: 15

Candidate Starts for DrLupo_4:

(Start: 15 @2032 has 10 MA's), (17, 2041), (23, 2134), (33, 2239), (36, 2278), (37, 2287),

Gene: FlagStaff_65 Start: 44241, Stop: 44540, Start Num: 15

Candidate Starts for FlagStaff_65:

(Start: 15 @44241 has 10 MA's), (Start: 18 @44259 has 1 MA's), (32, 44430), (34, 44460), (38, 44505),

Gene: GodSpeed_62 Start: 43746, Stop: 44045, Start Num: 15

Candidate Starts for GodSpeed_62:

(Start: 15 @43746 has 10 MA's), (25, 43863), (26, 43872), (38, 44010), (39, 44013), (40, 44025),

Gene: Jolie2_62 Start: 43752, Stop: 44042, Start Num: 16

Candidate Starts for Jolie2_62:

(5, 43638), (Start: 16 @43752 has 1 MA's), (24, 43851), (28, 43875), (29, 43881),

Gene: Lemuria_65 Start: 44438, Stop: 44734, Start Num: 15

Candidate Starts for Lemuria_65:

(5, 44327), (Start: 15 @44438 has 10 MA's), (Start: 18 @44456 has 1 MA's), (20, 44492), (26, 44564), (29, 44579), (30, 44612), (35, 44672), (37, 44696), (38, 44705),

Gene: Mercurio_64 Start: 44317, Stop: 44613, Start Num: 15

Candidate Starts for Mercurio_64:

(3, 44125), (5, 44206), (Start: 15 @44317 has 10 MA's), (Start: 18 @44335 has 1 MA's), (20, 44371), (26, 44443), (27, 44449), (29, 44458), (32, 44509),

Gene: Pace1224_69 Start: 44505, Stop: 44786, Start Num: 18

Candidate Starts for Pace1224_69:

(Start: 15 @44487 has 10 MA's), (Start: 18 @44505 has 1 MA's), (32, 44676), (37, 44742), (38, 44751),

Gene: Pinnie_66 Start: 44520, Stop: 44807, Start Num: 16

Candidate Starts for Pinnie_66:

(8, 44418), (9, 44427), (11, 44475), (12, 44487), (Start: 16 @44520 has 1 MA's), (19, 44547), (24, 44628), (27, 44649), (29, 44658),

Gene: Stargaze_66 Start: 44854, Stop: 45147, Start Num: 15

Candidate Starts for Stargaze_66:

(Start: 15 @44854 has 10 MA's), (22, 44920), (24, 44968),

Gene: YangYin_67 Start: 44595, Stop: 44888, Start Num: 15

Candidate Starts for YangYin_67:

(1, 44310), (2, 44382), (14, 44586), (Start: 15 @44595 has 10 MA's), (22, 44661), (24, 44709),