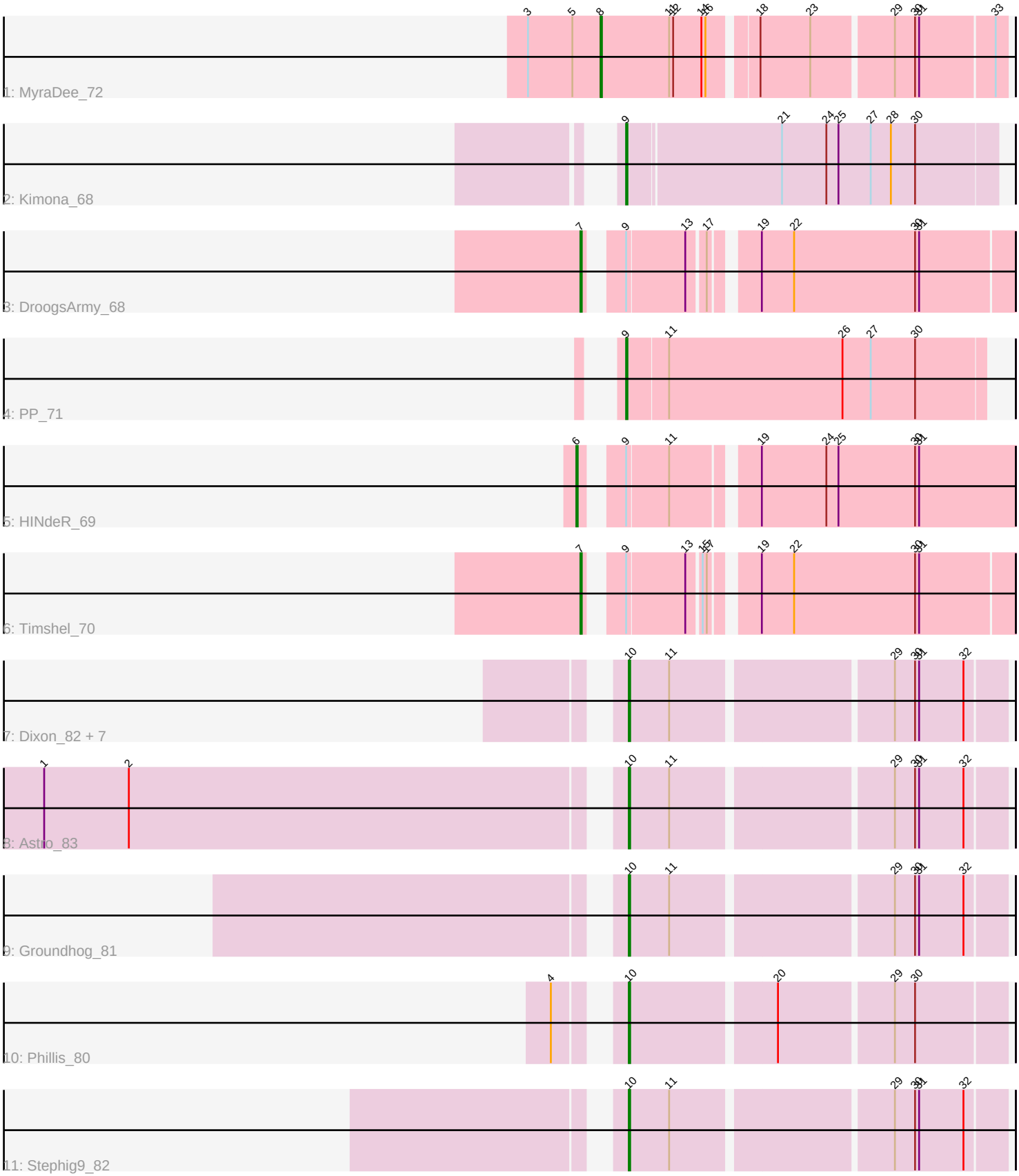
Pham 331292


1: MyraDee_72
2: Kimona_68
3: DroogsArmy_68
4: PP_71
5: HINdeR_69
6: Timshel_70
7: Dixon_82 + 7
8: Astro_83
9: Groundhog_81
10: Phillis_80
11: Stephig9_82

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 331292 Report

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

Pham number 331292 has 18 members, 0 are drafts.

Phages represented in each track:
• Track 1 : MyraDee_72
• Track 2 : Kimona_68
• Track 3 : DroogsArmy_68
• Track 4 : PP_71
• Track 5 : HINdeR_69
• Track 6 : Timshel_70
• Track 7 : Dixon_82, NearlyHeadless_84, Smeadley_83, Roary_85, Expelliarmus_80, Saintus_79, Caitlin_82, Danforth_84
• Track 8 : Astro_83
• Track 9 : Groundhog_81
• Track 10 : Phillis_80
• Track 11 : Stephig9_82

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

The start number called the most often in the published annotations is 10, it was called in 12 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Astro_83, Caitlin_82, Danforth_84, Dixon_82, Expelliarmus_80, Groundhog_81, NearlyHeadless_84, Phillis_80, Roary_85, Saintus_79, Smeadley_83, Stephig9_82,

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

Genes that do not have the "Most Annotated" start:
• DroogsArmy_68, HINdeR_69, Kimona_68, MyraDee_72, PP_71, Timshel_70,

Summary by start number:

Start 6:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present

• Phage (with cluster) where this start called: HINdeR_69 (A7),

Start 7:
• Found in 2 of 18 (11.1%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DroogsArmy_68 (A7), Timshel_70 (A7),

Start 8:
• Found in 1 of 18 (5.6%) of genes in pham
• Manual Annotations of this start: 1 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MyraDee_72 (A18),

Start 9:
• Found in 5 of 18 (27.8%) of genes in pham
• Manual Annotations of this start: 2 of 18
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Kimona_68 (A19), PP_71 (A7),

Start 10:
• Found in 12 of 18 (66.7%) of genes in pham
• Manual Annotations of this start: 12 of 18
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Astro_83 (A8), Caitlin_82 (A8), Danforth_84 (A8), Dixon_82 (A8), Expelliarmus_80 (A8), Groundhog_81 (A8), NearlyHeadless_84 (A8), Phillis_80 (A8), Roary_85 (A8), Saintus_79 (A8), Smeadley_83 (A8), Stephig9_82 (A8),

Summary by clusters:

There are 4 clusters represented in this pham: A8, A19, A18, A7,

Info for manual annotations of cluster A18:
•Start number 8 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A19:
•Start number 9 was manually annotated 1 time for cluster A19.

Info for manual annotations of cluster A7:
•Start number 6 was manually annotated 1 time for cluster A7.
•Start number 7 was manually annotated 2 times for cluster A7.
•Start number 9 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster A8:
•Start number 10 was manually annotated 12 times for cluster A8.

Gene Information:

Gene: Astro_83 Start: 45517, Stop: 45254, Start Num: 10
Candidate Starts for Astro_83:

(1, 45928), (2, 45865), (Start: 10 @45517 has 12 MA's), (11, 45487), (29, 45334), (30, 45319), (31, 45316), (32, 45283),

Gene: Caitlin_82 Start: 45209, Stop: 44946, Start Num: 10
Candidate Starts for Caitlin_82:
(Start: 10 @45209 has 12 MA's), (11, 45179), (29, 45026), (30, 45011), (31, 45008), (32, 44975),

Gene: Danforth_84 Start: 45594, Stop: 45331, Start Num: 10
Candidate Starts for Danforth_84:
(Start: 10 @45594 has 12 MA's), (11, 45564), (29, 45411), (30, 45396), (31, 45393), (32, 45360),

Gene: Dixon_82 Start: 45076, Stop: 44813, Start Num: 10
Candidate Starts for Dixon_82:
(Start: 10 @45076 has 12 MA's), (11, 45046), (29, 44893), (30, 44878), (31, 44875), (32, 44842),

Gene: DroogsArmy_68 Start: 46858, Stop: 46574, Start Num: 7
Candidate Starts for DroogsArmy_68:
(Start: 7 @46858 has 2 MA's), (Start: 9 @46840 has 2 MA's), (13, 46798), (17, 46786), (19, 46759), (22, 46735), (30, 46645), (31, 46642),

Gene: Expelliarmus_80 Start: 45290, Stop: 45027, Start Num: 10
Candidate Starts for Expelliarmus_80:
(Start: 10 @45290 has 12 MA's), (11, 45260), (29, 45107), (30, 45092), (31, 45089), (32, 45056),

Gene: Groundhog_81 Start: 45346, Stop: 45083, Start Num: 10
Candidate Starts for Groundhog_81:
(Start: 10 @45346 has 12 MA's), (11, 45316), (29, 45163), (30, 45148), (31, 45145), (32, 45112),

Gene: HINdeR_69 Start: 46286, Stop: 45993, Start Num: 6
Candidate Starts for HINdeR_69:
(Start: 6 @46286 has 1 MA's), (Start: 9 @46265 has 2 MA's), (11, 46235), (19, 46181), (24, 46133), (25, 46124), (30, 46067), (31, 46064),

Gene: Kimona_68 Start: 42650, Stop: 42381, Start Num: 9
Candidate Starts for Kimona_68:
(Start: 9 @42650 has 2 MA's), (21, 42539), (24, 42506), (25, 42497), (27, 42473), (28, 42458), (30, 42440),

Gene: MyraDee_72 Start: 41845, Stop: 41564, Start Num: 8
Candidate Starts for MyraDee_72:
(3, 41899), (5, 41866), (Start: 8 @41845 has 1 MA's), (11, 41794), (12, 41791), (14, 41770), (16, 41767), (18, 41737), (23, 41701), (29, 41644), (30, 41629), (31, 41626), (33, 41572),

Gene: NearlyHeadless_84 Start: 45360, Stop: 45097, Start Num: 10
Candidate Starts for NearlyHeadless_84:
(Start: 10 @45360 has 12 MA's), (11, 45330), (29, 45177), (30, 45162), (31, 45159), (32, 45126),

Gene: PP_71 Start: 48071, Stop: 47808, Start Num: 9
Candidate Starts for PP_71:
(Start: 9 @48071 has 2 MA's), (11, 48041), (26, 47912), (27, 47891), (30, 47858),

Gene: Phillis_80 Start: 44378, Stop: 44115, Start Num: 10
Candidate Starts for Phillis_80:

(4, 44411), (Start: 10 @44378 has 12 MA's), (20, 44276), (29, 44195), (30, 44180),

Gene: Roary_85 Start: 45548, Stop: 45285, Start Num: 10
Candidate Starts for Roary_85:
(Start: 10 @45548 has 12 MA's), (11, 45518), (29, 45365), (30, 45350), (31, 45347), (32, 45314),

Gene: Saintus_79 Start: 42196, Stop: 41933, Start Num: 10
Candidate Starts for Saintus_79:
(Start: 10 @42196 has 12 MA's), (11, 42166), (29, 42013), (30, 41998), (31, 41995), (32, 41962),

Gene: Smeadley_83 Start: 45412, Stop: 45149, Start Num: 10
Candidate Starts for Smeadley_83:
(Start: 10 @45412 has 12 MA's), (11, 45382), (29, 45229), (30, 45214), (31, 45211), (32, 45178),

Gene: Stephig9_82 Start: 45351, Stop: 45088, Start Num: 10
Candidate Starts for Stephig9_82:
(Start: 10 @45351 has 12 MA's), (11, 45321), (29, 45168), (30, 45153), (31, 45150), (32, 45117),

Gene: Timshel_70 Start: 46669, Stop: 46385, Start Num: 7
Candidate Starts for Timshel_70:
(Start: 7 @46669 has 2 MA's), (Start: 9 @46651 has 2 MA's), (13, 46609), (15, 46600), (17, 46597), (19, 46570), (22, 46546), (30, 46456), (31, 46453),