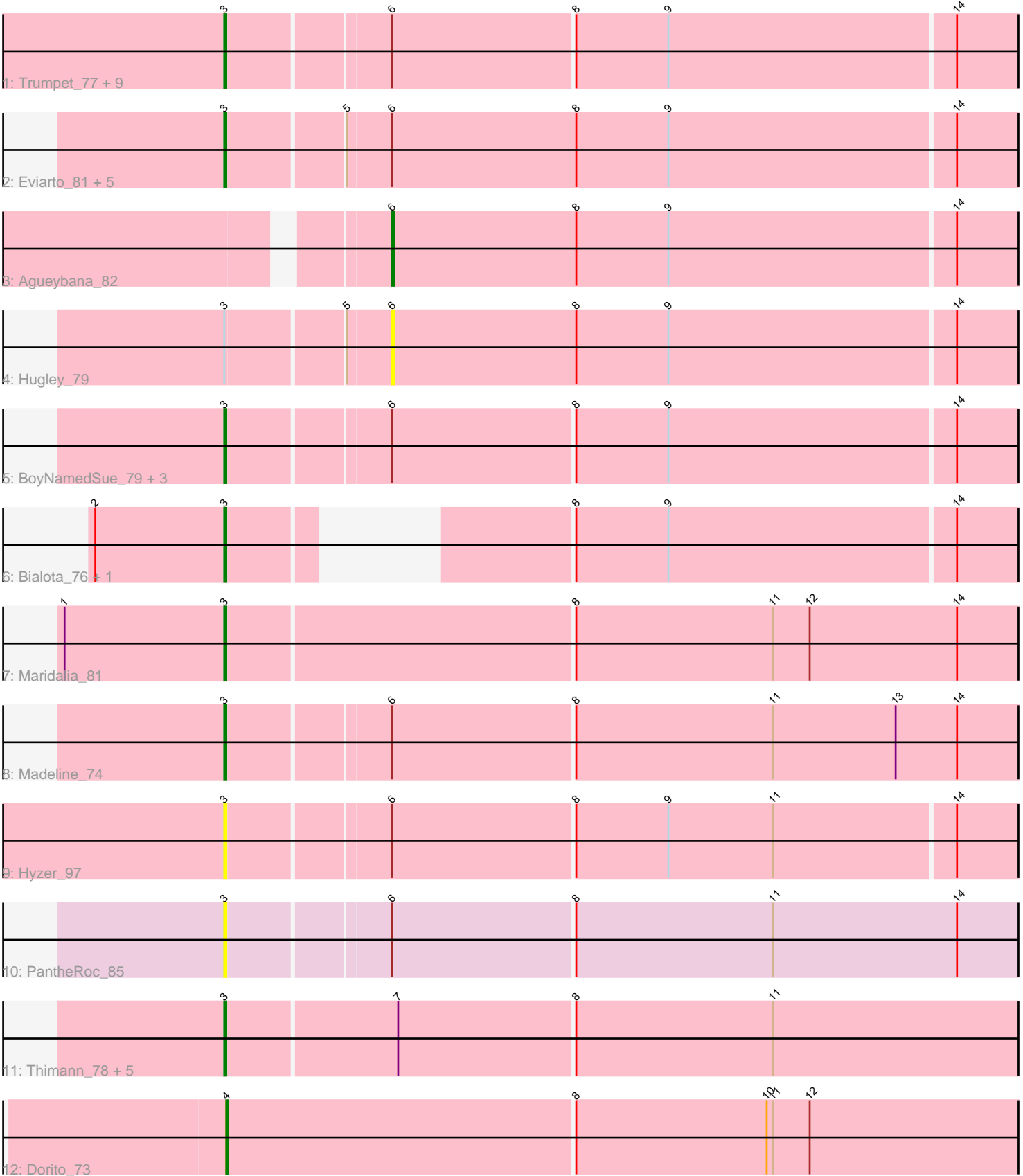


Pham 86141



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 86141 Report

This analysis was run 04/28/24 on database version 559.

Pham number 86141 has 35 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Trumpet_77, Neobush_79, Antonio_76, Zameen_77, Manasvini_79, Kita_78, Polly_74, Suscepit_77, Eudoria_77, Tayonia_77
- Track 2 : Eviarto_81, Bosnia_79, Nymphadora_81, BatStarr_80, Herod_81, TimTam_81
- Track 3 : Agueybana_82
- Track 4 : Hugley_79
- Track 5 : BoyNamedSue_79, Yeezy_83, AlumE_79, Ohgeesy_81
- Track 6 : Bialota_76, Zirinka_76
- Track 7 : Maridalia_81
- Track 8 : Madeline_74
- Track 9 : Hyzer_97
- Track 10 : PantheRoc_85
- Track 11 : Thimann_78, Adora_74, Hortense_77, Shlim410_75, Twinkle_76, Howe_77
- Track 12 : Dorito_73

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

The start number called the most often in the published annotations is 3, it was called in 30 of the 32 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_74, AlumE_79, Antonio_76, BatStarr_80, Bialota_76, Bosnia_79, BoyNamedSue_79, Eudoria_77, Eviarto_81, Herod_81, Hortense_77, Howe_77, Hyzer_97, Kita_78, Madeline_74, Manasvini_79, Maridalia_81, Neobush_79, Nymphadora_81, Ohgeesy_81, PantheRoc_85, Polly_74, Shlim410_75, Suscepit_77, Tayonia_77, Thimann_78, TimTam_81, Trumpet_77, Twinkle_76, Yeezy_83, Zameen_77, Zirinka_76,

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

- Hugley_79,

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

- Agueybana_82, Dorito_73,

Summary by start number:

Start 3:

- Found in 33 of 35 (94.3%) of genes in pham
- Manual Annotations of this start: 30 of 32
- Called 97.0% of time when present
- Phage (with cluster) where this start called: Adora_74 (CZ4), AlumE_79 (CZ1), Antonio_76 (CZ1), BatStarr_80 (CZ1), Bialota_76 (CZ1), Bosnia_79 (CZ1), BoyNamedSue_79 (CZ1), Eudoria_77 (CZ1), Eviarto_81 (CZ1), Herod_81 (CZ1), Hortense_77 (CZ4), Howe_77 (CZ4), Hyzer_97 (CZ1), Kita_78 (CZ1), Madeline_74 (CZ1), Manasvini_79 (CZ1), Maridalia_81 (CZ1), Neobush_79 (CZ1), Nymphadora_81 (CZ1), Ohgeesy_81 (CZ), PantheRoc_85 (CZ3), Polly_74 (CZ1), Shlim410_75 (CZ4), Suscepit_77 (CZ1), Tayonia_77 (CZ1), Thimann_78 (CZ4), TimTam_81 (CZ1), Trumpet_77 (CZ1), Twinkle_76 (CZ4), Yeezy_83 (CZ3), Zameen_77 (CZ1), Zirinka_76 (CZ1),

Start 4:

- Found in 1 of 35 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dorito_73 (CZ4),

Start 6:

- Found in 25 of 35 (71.4%) of genes in pham
- Manual Annotations of this start: 1 of 32
- Called 8.0% of time when present
- Phage (with cluster) where this start called: Agueybana_82 (CZ1), Hugley_79 (CZ1),

Summary by clusters:

There are 4 clusters represented in this pham: CZ3, CZ1, CZ4, CZ,

Info for manual annotations of cluster CZ:

- Start number 3 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 3 was manually annotated 22 times for cluster CZ1.
- Start number 6 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ3:

- Start number 3 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 3 was manually annotated 6 times for cluster CZ4.
- Start number 4 was manually annotated 1 time for cluster CZ4.

Gene Information:

Gene: Adora_74 Start: 50251, Stop: 50646, Start Num: 3

Candidate Starts for Adora_74:

(Start: 3 @50251 has 30 MA's), (7, 50332), (8, 50416), (11, 50512),

Gene: Agueybana_82 Start: 51671, Stop: 51988, Start Num: 6

Candidate Starts for Agueybana_82:

(Start: 6 @51671 has 1 MA's), (8, 51761), (9, 51806), (14, 51944),

Gene: AlumE_79 Start: 51490, Stop: 51879, Start Num: 3

Candidate Starts for AlumE_79:

(Start: 3 @51490 has 30 MA's), (Start: 6 @51565 has 1 MA's), (8, 51652), (9, 51697), (14, 51835),

Gene: Antonio_76 Start: 49253, Stop: 49642, Start Num: 3

Candidate Starts for Antonio_76:

(Start: 3 @49253 has 30 MA's), (Start: 6 @49328 has 1 MA's), (8, 49415), (9, 49460), (14, 49598),

Gene: BatStarr_80 Start: 52221, Stop: 52613, Start Num: 3

Candidate Starts for BatStarr_80:

(Start: 3 @52221 has 30 MA's), (5, 52275), (Start: 6 @52296 has 1 MA's), (8, 52386), (9, 52431), (14, 52569),

Gene: Bialota_76 Start: 50941, Stop: 51273, Start Num: 3

Candidate Starts for Bialota_76:

(2, 50878), (Start: 3 @50941 has 30 MA's), (8, 51046), (9, 51091), (14, 51229),

Gene: Bosnia_79 Start: 53335, Stop: 53727, Start Num: 3

Candidate Starts for Bosnia_79:

(Start: 3 @53335 has 30 MA's), (5, 53389), (Start: 6 @53410 has 1 MA's), (8, 53500), (9, 53545), (14, 53683),

Gene: BoyNamedSue_79 Start: 51490, Stop: 51879, Start Num: 3

Candidate Starts for BoyNamedSue_79:

(Start: 3 @51490 has 30 MA's), (Start: 6 @51565 has 1 MA's), (8, 51652), (9, 51697), (14, 51835),

Gene: Dorito_73 Start: 45625, Stop: 46041, Start Num: 4

Candidate Starts for Dorito_73:

(Start: 4 @45625 has 1 MA's), (8, 45793), (10, 45886), (11, 45889), (12, 45907),

Gene: Eudoria_77 Start: 49253, Stop: 49642, Start Num: 3

Candidate Starts for Eudoria_77:

(Start: 3 @49253 has 30 MA's), (Start: 6 @49328 has 1 MA's), (8, 49415), (9, 49460), (14, 49598),

Gene: Eviarto_81 Start: 52196, Stop: 52588, Start Num: 3

Candidate Starts for Eviarto_81:

(Start: 3 @52196 has 30 MA's), (5, 52250), (Start: 6 @52271 has 1 MA's), (8, 52361), (9, 52406), (14, 52544),

Gene: Herod_81 Start: 52615, Stop: 53007, Start Num: 3

Candidate Starts for Herod_81:

(Start: 3 @52615 has 30 MA's), (5, 52669), (Start: 6 @52690 has 1 MA's), (8, 52780), (9, 52825), (14, 52963),

Gene: Hortense_77 Start: 51606, Stop: 52001, Start Num: 3

Candidate Starts for Hortense_77:

(Start: 3 @51606 has 30 MA's), (7, 51687), (8, 51771), (11, 51867),

Gene: Howe_77 Start: 51606, Stop: 52001, Start Num: 3
Candidate Starts for Howe_77:
(Start: 3 @51606 has 30 MA's), (7, 51687), (8, 51771), (11, 51867),

Gene: Hugley_79 Start: 52670, Stop: 52987, Start Num: 6
Candidate Starts for Hugley_79:
(Start: 3 @52595 has 30 MA's), (5, 52649), (Start: 6 @52670 has 1 MA's), (8, 52760), (9, 52805), (14, 52943),

Gene: Hyzer_97 Start: 59265, Stop: 59654, Start Num: 3
Candidate Starts for Hyzer_97:
(Start: 3 @59265 has 30 MA's), (Start: 6 @59340 has 1 MA's), (8, 59427), (9, 59472), (11, 59523), (14, 59610),

Gene: Kita_78 Start: 49262, Stop: 49651, Start Num: 3
Candidate Starts for Kita_78:
(Start: 3 @49262 has 30 MA's), (Start: 6 @49337 has 1 MA's), (8, 49424), (9, 49469), (14, 49607),

Gene: Madeline_74 Start: 50584, Stop: 50976, Start Num: 3
Candidate Starts for Madeline_74:
(Start: 3 @50584 has 30 MA's), (Start: 6 @50659 has 1 MA's), (8, 50746), (11, 50842), (13, 50902), (14, 50932),

Gene: Manasvini_79 Start: 49277, Stop: 49666, Start Num: 3
Candidate Starts for Manasvini_79:
(Start: 3 @49277 has 30 MA's), (Start: 6 @49352 has 1 MA's), (8, 49439), (9, 49484), (14, 49622),

Gene: Maridalia_81 Start: 50539, Stop: 50934, Start Num: 3
Candidate Starts for Maridalia_81:
(1, 50461), (Start: 3 @50539 has 30 MA's), (8, 50704), (11, 50800), (12, 50818), (14, 50890),

Gene: Neobush_79 Start: 49821, Stop: 50210, Start Num: 3
Candidate Starts for Neobush_79:
(Start: 3 @49821 has 30 MA's), (Start: 6 @49896 has 1 MA's), (8, 49983), (9, 50028), (14, 50166),

Gene: Nymphadora_81 Start: 52220, Stop: 52612, Start Num: 3
Candidate Starts for Nymphadora_81:
(Start: 3 @52220 has 30 MA's), (5, 52274), (Start: 6 @52295 has 1 MA's), (8, 52385), (9, 52430), (14, 52568),

Gene: Ohgeesy_81 Start: 51762, Stop: 52151, Start Num: 3
Candidate Starts for Ohgeesy_81:
(Start: 3 @51762 has 30 MA's), (Start: 6 @51837 has 1 MA's), (8, 51924), (9, 51969), (14, 52107),

Gene: PantheRoc_85 Start: 51955, Stop: 52347, Start Num: 3
Candidate Starts for PantheRoc_85:
(Start: 3 @51955 has 30 MA's), (Start: 6 @52030 has 1 MA's), (8, 52117), (11, 52213), (14, 52303),

Gene: Polly_74 Start: 48696, Stop: 49085, Start Num: 3
Candidate Starts for Polly_74:
(Start: 3 @48696 has 30 MA's), (Start: 6 @48771 has 1 MA's), (8, 48858), (9, 48903), (14, 49041),

Gene: Shlim410_75 Start: 51606, Stop: 52001, Start Num: 3
Candidate Starts for Shlim410_75:
(Start: 3 @51606 has 30 MA's), (7, 51687), (8, 51771), (11, 51867),

Gene: Suscepit_77 Start: 49254, Stop: 49643, Start Num: 3
Candidate Starts for Suscepit_77:
(Start: 3 @49254 has 30 MA's), (Start: 6 @49329 has 1 MA's), (8, 49416), (9, 49461), (14, 49599),

Gene: Tayonia_77 Start: 49253, Stop: 49642, Start Num: 3
Candidate Starts for Tayonia_77:
(Start: 3 @49253 has 30 MA's), (Start: 6 @49328 has 1 MA's), (8, 49415), (9, 49460), (14, 49598),

Gene: Thimann_78 Start: 46908, Stop: 47303, Start Num: 3
Candidate Starts for Thimann_78:
(Start: 3 @46908 has 30 MA's), (7, 46989), (8, 47073), (11, 47169),

Gene: TimTam_81 Start: 52220, Stop: 52612, Start Num: 3
Candidate Starts for TimTam_81:
(Start: 3 @52220 has 30 MA's), (5, 52274), (Start: 6 @52295 has 1 MA's), (8, 52385), (9, 52430), (14, 52568),

Gene: Trumpet_77 Start: 49254, Stop: 49643, Start Num: 3
Candidate Starts for Trumpet_77:
(Start: 3 @49254 has 30 MA's), (Start: 6 @49329 has 1 MA's), (8, 49416), (9, 49461), (14, 49599),

Gene: Twinkle_76 Start: 52665, Stop: 53060, Start Num: 3
Candidate Starts for Twinkle_76:
(Start: 3 @52665 has 30 MA's), (7, 52746), (8, 52830), (11, 52926),

Gene: Yeezy_83 Start: 50273, Stop: 50665, Start Num: 3
Candidate Starts for Yeezy_83:
(Start: 3 @50273 has 30 MA's), (Start: 6 @50348 has 1 MA's), (8, 50438), (9, 50483), (14, 50621),

Gene: Zameen_77 Start: 49253, Stop: 49642, Start Num: 3
Candidate Starts for Zameen_77:
(Start: 3 @49253 has 30 MA's), (Start: 6 @49328 has 1 MA's), (8, 49415), (9, 49460), (14, 49598),

Gene: Zirinka_76 Start: 50929, Stop: 51261, Start Num: 3
Candidate Starts for Zirinka_76:
(2, 50866), (Start: 3 @50929 has 30 MA's), (8, 51034), (9, 51079), (14, 51217),