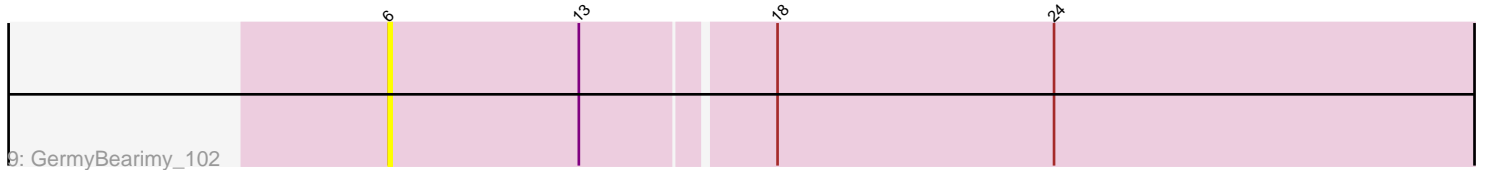
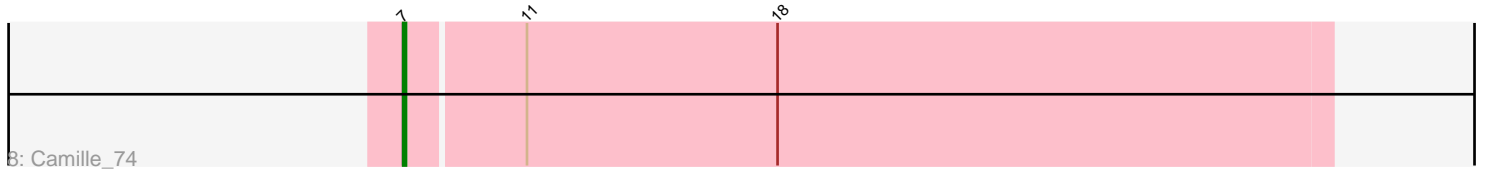
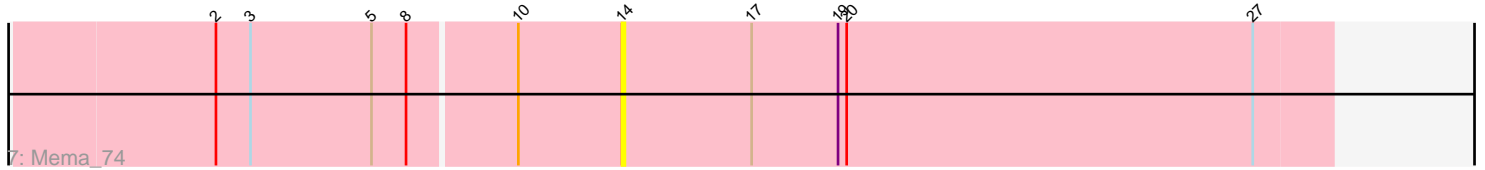
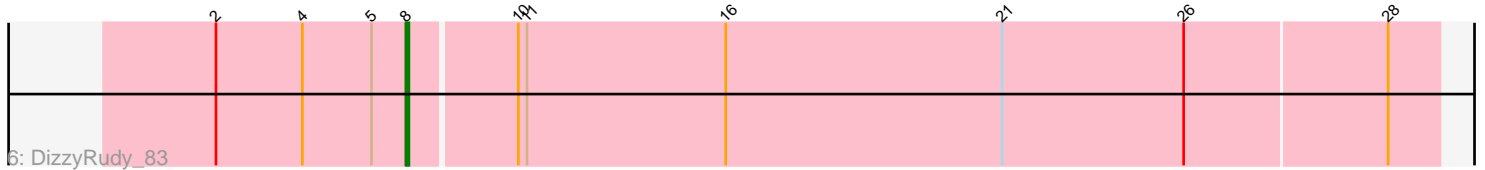
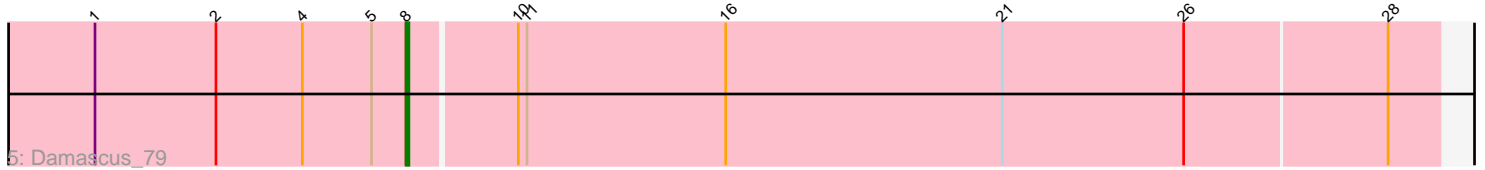
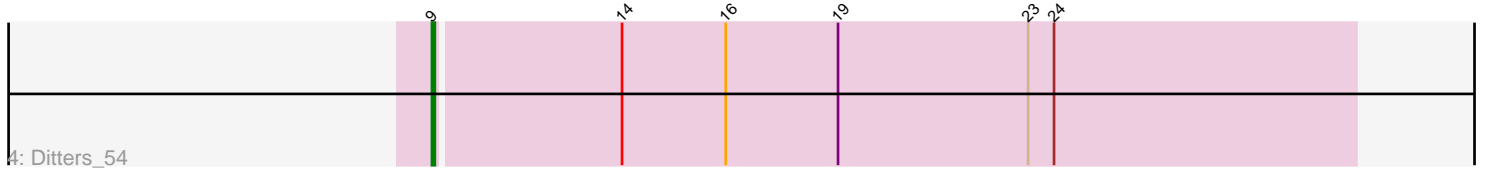
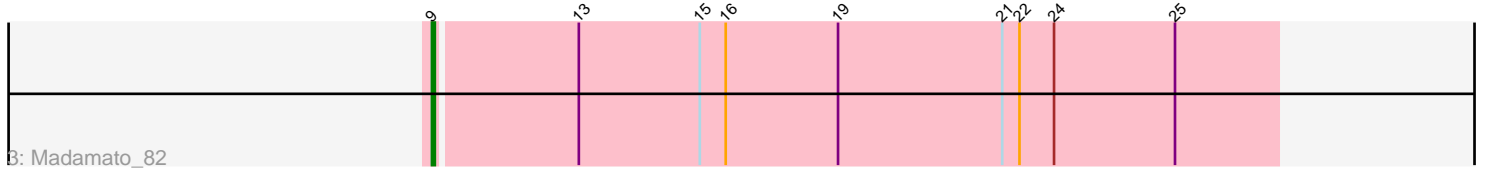
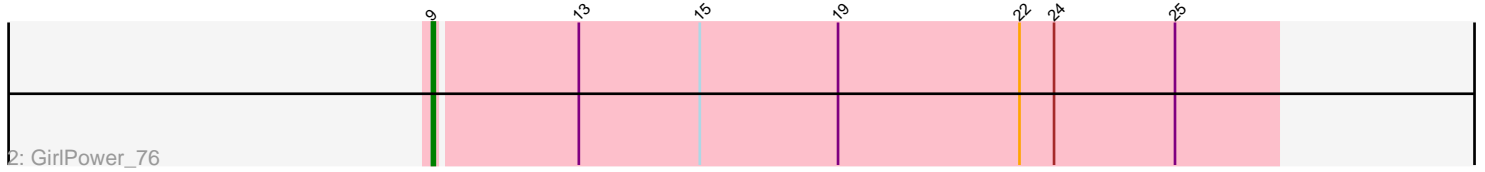
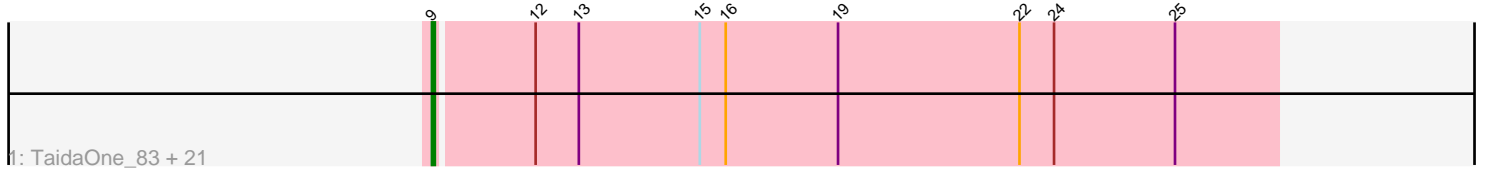


Pham 296813



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 296813 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296813 has 30 members, 2 are drafts.

Phages represented in each track:

- Track 1 : TaidaOne_83, Maya_83, Esketit_79, Namu_85, CherryBlossom_83, OlympicHelado_85, Espio_81, Popy_81, IceWarrior_83, FidgetOrca_85, HazuAndZazu_80, Spectropatronm_82, Indigenous_85, DrGrey_79, Soshi_82, Rima_84, TieDye_79, FrodoSwaggins_81, Jaylociraptor_83, Meibysrarus_81, TonyStarch_82, Hoshi_84
- Track 2 : GirlPower_76
- Track 3 : Madamoto_82
- Track 4 : Ditters_54
- Track 5 : Damascus_79
- Track 6 : DizzyRudy_83
- Track 7 : Mema_74
- Track 8 : Camille_74
- Track 9 : GermyBearimy_102

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

The start number called the most often in the published annotations is 9, it was called in 25 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CherryBlossom_83, Ditters_54, DrGrey_79, Esketit_79, Espio_81, FidgetOrca_85, FrodoSwaggins_81, GirlPower_76, HazuAndZazu_80, Hoshi_84, IceWarrior_83, Indigenous_85, Jaylociraptor_83, Madamoto_82, Maya_83, Meibysrarus_81, Namu_85, OlympicHelado_85, Popy_81, Rima_84, Soshi_82, Spectropatronm_82, TaidaOne_83, TieDye_79, TonyStarch_82,

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

-

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

- Camille_74, Damascus_79, DizzyRudy_83, GermyBearimy_102, Mema_74,

Summary by start number:

Start 6:

- Found in 1 of 30 (3.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GermyBearimy_102 (FI),

Start 7:

- Found in 1 of 30 (3.3%) 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: Camille_74 (EL),

Start 8:

- Found in 3 of 30 (10.0%) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Damascus_79 (EL), DizzyRudy_83 (EL),

Start 9:

- Found in 25 of 30 (83.3%) of genes in pham
- Manual Annotations of this start: 25 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryBlossom_83 (BI1), Ditters_54 (BI2), DrGrey_79 (BI1), Esketit_79 (BI1), Espio_81 (BI1), FidgetOrca_85 (BI1), FrodoSwaggins_81 (BI1), GirlPower_76 (BI1), HazuAndZazu_80 (BI1), Hoshi_84 (BI1), IceWarrior_83 (BI1), Indigenous_85 (BI1), Jaylociraptor_83 (BI1), Madamato_82 (BI1), Maya_83 (BI1), Meibysrarus_81 (BI1), Namu_85 (BI1), OlympicHelado_85 (BI1), Popy_81 (BI1), Rima_84 (BI1), Soshi_82 (BI1), Spectropatronm_82 (BI1), TaidaOne_83 (BI1), TieDye_79 (BI1), TonyStarch_82 (BI1),

Start 14:

- Found in 2 of 30 (6.7%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Mema_74 (EL),

Summary by clusters:

There are 4 clusters represented in this pham: EL, BI2, FI, BI1,

Info for manual annotations of cluster BI1:

- Start number 9 was manually annotated 24 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 9 was manually annotated 1 time for cluster BI2.

Info for manual annotations of cluster EL:

- Start number 7 was manually annotated 1 time for cluster EL.
- Start number 8 was manually annotated 2 times for cluster EL.

Gene Information:

Gene: Camille_74 Start: 49086, Stop: 49403, Start Num: 7

Candidate Starts for Camille_74:

(Start: 7 @49086 has 1 MA's), (11, 49125), (18, 49212),

Gene: CherryBlossom_83 Start: 51474, Stop: 51764, Start Num: 9

Candidate Starts for CherryBlossom_83:

(Start: 9 @51474 has 25 MA's), (12, 51507), (13, 51522), (15, 51564), (16, 51573), (19, 51612), (22, 51675), (24, 51687), (25, 51729),

Gene: Damascus_79 Start: 52477, Stop: 52830, Start Num: 8

Candidate Starts for Damascus_79:

(1, 52369), (2, 52411), (4, 52441), (5, 52465), (Start: 8 @52477 has 2 MA's), (10, 52513), (11, 52516), (16, 52585), (21, 52681), (26, 52744), (28, 52813),

Gene: Ditters_54 Start: 40002, Stop: 40319, Start Num: 9

Candidate Starts for Ditters_54:

(Start: 9 @40002 has 25 MA's), (14, 40065), (16, 40101), (19, 40140), (23, 40206), (24, 40215),

Gene: DizzyRudy_83 Start: 51813, Stop: 52166, Start Num: 8

Candidate Starts for DizzyRudy_83:

(2, 51747), (4, 51777), (5, 51801), (Start: 8 @51813 has 2 MA's), (10, 51849), (11, 51852), (16, 51921), (21, 52017), (26, 52080), (28, 52149),

Gene: DrGrey_79 Start: 51987, Stop: 52277, Start Num: 9

Candidate Starts for DrGrey_79:

(Start: 9 @51987 has 25 MA's), (12, 52020), (13, 52035), (15, 52077), (16, 52086), (19, 52125), (22, 52188), (24, 52200), (25, 52242),

Gene: Esketit_79 Start: 50575, Stop: 50865, Start Num: 9

Candidate Starts for Esketit_79:

(Start: 9 @50575 has 25 MA's), (12, 50608), (13, 50623), (15, 50665), (16, 50674), (19, 50713), (22, 50776), (24, 50788), (25, 50830),

Gene: Espio_81 Start: 52358, Stop: 52648, Start Num: 9

Candidate Starts for Espio_81:

(Start: 9 @52358 has 25 MA's), (12, 52391), (13, 52406), (15, 52448), (16, 52457), (19, 52496), (22, 52559), (24, 52571), (25, 52613),

Gene: FidgetOrca_85 Start: 52025, Stop: 52315, Start Num: 9

Candidate Starts for FidgetOrca_85:

(Start: 9 @52025 has 25 MA's), (12, 52058), (13, 52073), (15, 52115), (16, 52124), (19, 52163), (22, 52226), (24, 52238), (25, 52280),

Gene: FrodoSwaggins_81 Start: 52382, Stop: 52672, Start Num: 9

Candidate Starts for FrodoSwaggins_81:

(Start: 9 @52382 has 25 MA's), (12, 52415), (13, 52430), (15, 52472), (16, 52481), (19, 52520), (22, 52583), (24, 52595), (25, 52637),

Gene: GermyBearimy_102 Start: 55428, Stop: 55799, Start Num: 6

Candidate Starts for GermyBearimy_102:

(6, 55428), (13, 55494), (18, 55557), (24, 55653),

Gene: GirlPower_76 Start: 51444, Stop: 51734, Start Num: 9
Candidate Starts for GirlPower_76:
(Start: 9 @51444 has 25 MA's), (13, 51492), (15, 51534), (19, 51582), (22, 51645), (24, 51657), (25, 51699),

Gene: HazuAndZazu_80 Start: 51734, Stop: 52024, Start Num: 9
Candidate Starts for HazuAndZazu_80:
(Start: 9 @51734 has 25 MA's), (12, 51767), (13, 51782), (15, 51824), (16, 51833), (19, 51872), (22, 51935), (24, 51947), (25, 51989),

Gene: Hoshi_84 Start: 51639, Stop: 51929, Start Num: 9
Candidate Starts for Hoshi_84:
(Start: 9 @51639 has 25 MA's), (12, 51672), (13, 51687), (15, 51729), (16, 51738), (19, 51777), (22, 51840), (24, 51852), (25, 51894),

Gene: IceWarrior_83 Start: 51444, Stop: 51734, Start Num: 9
Candidate Starts for IceWarrior_83:
(Start: 9 @51444 has 25 MA's), (12, 51477), (13, 51492), (15, 51534), (16, 51543), (19, 51582), (22, 51645), (24, 51657), (25, 51699),

Gene: Indigenous_85 Start: 52030, Stop: 52320, Start Num: 9
Candidate Starts for Indigenous_85:
(Start: 9 @52030 has 25 MA's), (12, 52063), (13, 52078), (15, 52120), (16, 52129), (19, 52168), (22, 52231), (24, 52243), (25, 52285),

Gene: Jaylociraptor_83 Start: 51610, Stop: 51900, Start Num: 9
Candidate Starts for Jaylociraptor_83:
(Start: 9 @51610 has 25 MA's), (12, 51643), (13, 51658), (15, 51700), (16, 51709), (19, 51748), (22, 51811), (24, 51823), (25, 51865),

Gene: Madamoto_82 Start: 51285, Stop: 51575, Start Num: 9
Candidate Starts for Madamoto_82:
(Start: 9 @51285 has 25 MA's), (13, 51333), (15, 51375), (16, 51384), (19, 51423), (21, 51480), (22, 51486), (24, 51498), (25, 51540),

Gene: Maya_83 Start: 51624, Stop: 51914, Start Num: 9
Candidate Starts for Maya_83:
(Start: 9 @51624 has 25 MA's), (12, 51657), (13, 51672), (15, 51714), (16, 51723), (19, 51762), (22, 51825), (24, 51837), (25, 51879),

Gene: Meibysrarus_81 Start: 51008, Stop: 51298, Start Num: 9
Candidate Starts for Meibysrarus_81:
(Start: 9 @51008 has 25 MA's), (12, 51041), (13, 51056), (15, 51098), (16, 51107), (19, 51146), (22, 51209), (24, 51221), (25, 51263),

Gene: Mema_74 Start: 53163, Stop: 53408, Start Num: 14
Candidate Starts for Mema_74:
(2, 53025), (3, 53037), (5, 53079), (Start: 8 @53091 has 2 MA's), (10, 53127), (14, 53163), (17, 53208), (19, 53238), (20, 53241), (27, 53382),

Gene: Namo_85 Start: 52079, Stop: 52369, Start Num: 9
Candidate Starts for Namo_85:

(Start: 9 @52079 has 25 MA's), (12, 52112), (13, 52127), (15, 52169), (16, 52178), (19, 52217), (22, 52280), (24, 52292), (25, 52334),

Gene: OlympicHelado_85 Start: 52100, Stop: 52390, Start Num: 9

Candidate Starts for OlympicHelado_85:

(Start: 9 @52100 has 25 MA's), (12, 52133), (13, 52148), (15, 52190), (16, 52199), (19, 52238), (22, 52301), (24, 52313), (25, 52355),

Gene: Popy_81 Start: 52381, Stop: 52671, Start Num: 9

Candidate Starts for Popy_81:

(Start: 9 @52381 has 25 MA's), (12, 52414), (13, 52429), (15, 52471), (16, 52480), (19, 52519), (22, 52582), (24, 52594), (25, 52636),

Gene: Rima_84 Start: 52079, Stop: 52369, Start Num: 9

Candidate Starts for Rima_84:

(Start: 9 @52079 has 25 MA's), (12, 52112), (13, 52127), (15, 52169), (16, 52178), (19, 52217), (22, 52280), (24, 52292), (25, 52334),

Gene: Soshi_82 Start: 52222, Stop: 52512, Start Num: 9

Candidate Starts for Soshi_82:

(Start: 9 @52222 has 25 MA's), (12, 52255), (13, 52270), (15, 52312), (16, 52321), (19, 52360), (22, 52423), (24, 52435), (25, 52477),

Gene: Spectropatronm_82 Start: 51618, Stop: 51908, Start Num: 9

Candidate Starts for Spectropatronm_82:

(Start: 9 @51618 has 25 MA's), (12, 51651), (13, 51666), (15, 51708), (16, 51717), (19, 51756), (22, 51819), (24, 51831), (25, 51873),

Gene: TaidaOne_83 Start: 52094, Stop: 52384, Start Num: 9

Candidate Starts for TaidaOne_83:

(Start: 9 @52094 has 25 MA's), (12, 52127), (13, 52142), (15, 52184), (16, 52193), (19, 52232), (22, 52295), (24, 52307), (25, 52349),

Gene: TieDye_79 Start: 50942, Stop: 51232, Start Num: 9

Candidate Starts for TieDye_79:

(Start: 9 @50942 has 25 MA's), (12, 50975), (13, 50990), (15, 51032), (16, 51041), (19, 51080), (22, 51143), (24, 51155), (25, 51197),

Gene: TonyStarch_82 Start: 51380, Stop: 51670, Start Num: 9

Candidate Starts for TonyStarch_82:

(Start: 9 @51380 has 25 MA's), (12, 51413), (13, 51428), (15, 51470), (16, 51479), (19, 51518), (22, 51581), (24, 51593), (25, 51635),