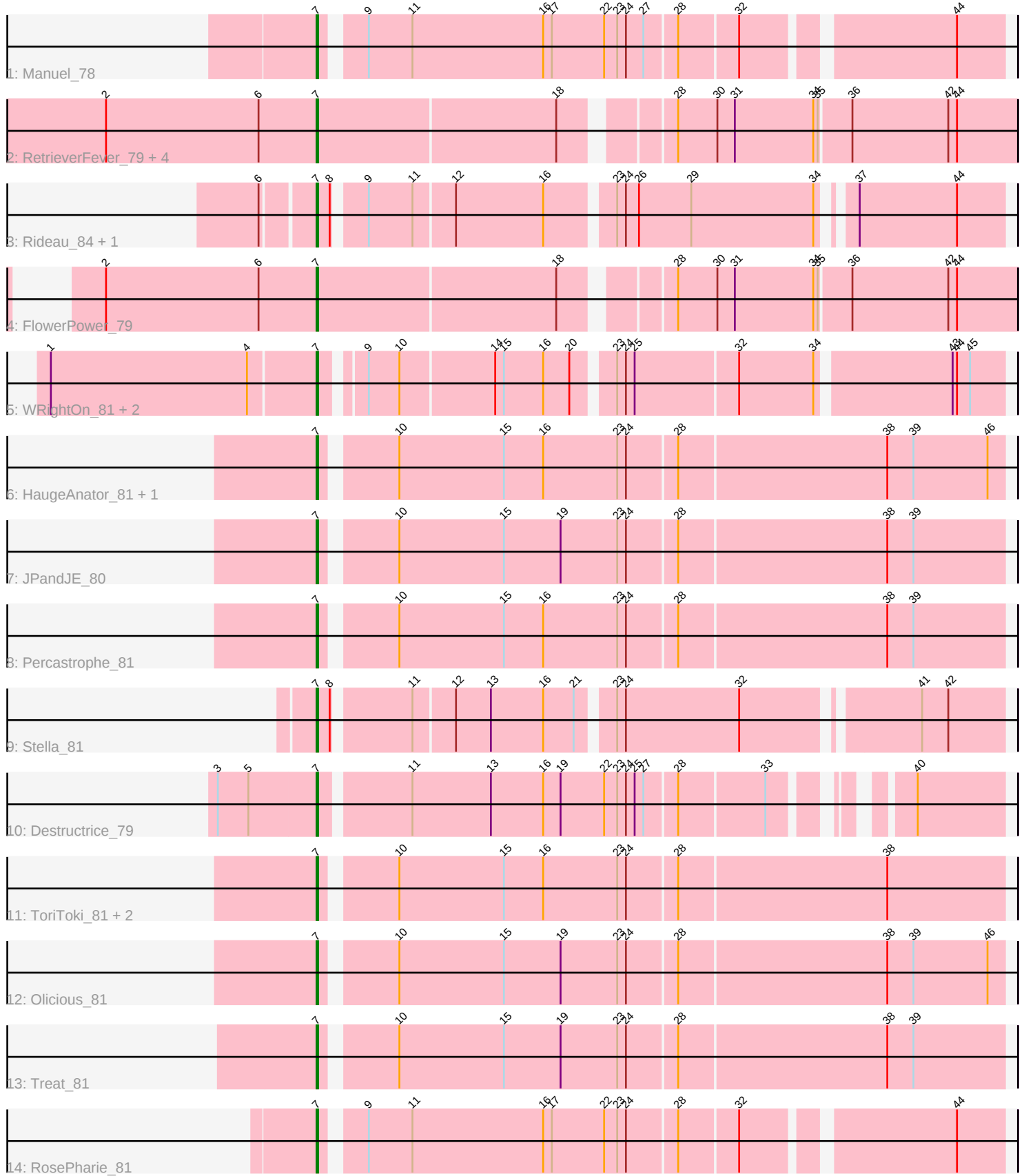


Pham 280825



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 280825 Report

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

Pham number 280825 has 24 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Manuel_78
- Track 2 : RetrieverFever_79, Gremlin23_79, Geostin_74, Vorvolakos_80, Fabian_78
- Track 3 : Rideau_84, Dennebes_85
- Track 4 : FlowerPower_79
- Track 5 : WRightOn_81, Kumquat_77, Zeigle_77
- Track 6 : HaugeAnator_81, ZooBear_81
- Track 7 : JPandJE_80
- Track 8 : Percastrophe_81
- Track 9 : Stella_81
- Track 10 : Destructrice_79
- Track 11 : ToriToki_81, Immanuel3_79, Romero_81
- Track 12 : Olacious_81
- Track 13 : Treat_81
- Track 14 : RosePharie_81

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

The start number called the most often in the published annotations is 7, it was called in 23 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dennebes_85, Destructrice_79, Fabian_78, FlowerPower_79, Geostin_74, Gremlin23_79, HaugeAnator_81, Immanuel3_79, JPandJE_80, Kumquat_77, Manuel_78, Olacious_81, Percastrophe_81, RetrieverFever_79, Rideau_84, Romero_81, RosePharie_81, Stella_81, ToriToki_81, Treat_81, Vorvolakos_80, WRightOn_81, Zeigle_77, ZooBear_81,

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

-

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

-

Summary by start number:

Start 7:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 23 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dennebes_85 (BF), Destructrice_79 (BF), Fabian_78 (BF), FlowerPower_79 (BF), Geostin_74 (BF), Gremlin23_79 (BF), HaugeAnator_81 (BF), Immanuel3_79 (BF), JPandJE_80 (BF), Kumquat_77 (BF), Manuel_78 (BF), Ollicious_81 (BF), Percastrophe_81 (BF), RetrieverFever_79 (BF), Rideau_84 (BF), Romero_81 (BF), RosePharie_81 (BF), Stella_81 (BF), ToriToki_81 (BF), Treat_81 (BF), Vorvolakos_80 (BF), WRightOn_81 (BF), Zeigle_77 (BF), ZooBear_81 (BF),

Summary by clusters:

There is one cluster represented in this pham: BF

Info for manual annotations of cluster BF:

- Start number 7 was manually annotated 23 times for cluster BF.

Gene Information:

Gene: Dennebes_85 Start: 41488, Stop: 41054, Start Num: 7

Candidate Starts for Dennebes_85:

(6, 41521), (Start: 7 @41488 has 23 MA's), (8, 41479), (9, 41461), (11, 41431), (12, 41404), (16, 41344), (23, 41302), (24, 41296), (26, 41287), (29, 41251), (34, 41167), (37, 41152), (44, 41086),

Gene: Destructrice_79 Start: 41060, Stop: 40641, Start Num: 7

Candidate Starts for Destructrice_79:

(3, 41126), (5, 41105), (Start: 7 @41060 has 23 MA's), (11, 41003), (13, 40949), (16, 40913), (19, 40901), (22, 40871), (23, 40862), (24, 40856), (25, 40850), (27, 40844), (28, 40823), (33, 40766), (40, 40700),

Gene: Fabian_78 Start: 41394, Stop: 40939, Start Num: 7

Candidate Starts for Fabian_78:

(2, 41538), (6, 41433), (Start: 7 @41394 has 23 MA's), (18, 41232), (28, 41169), (30, 41142), (31, 41130), (34, 41076), (35, 41073), (36, 41052), (42, 40986), (44, 40980),

Gene: FlowerPower_79 Start: 41064, Stop: 40609, Start Num: 7

Candidate Starts for FlowerPower_79:

(2, 41208), (6, 41103), (Start: 7 @41064 has 23 MA's), (18, 40902), (28, 40839), (30, 40812), (31, 40800), (34, 40746), (35, 40743), (36, 40722), (42, 40656), (44, 40650),

Gene: Geostin_74 Start: 41064, Stop: 40609, Start Num: 7

Candidate Starts for Geostin_74:

(2, 41208), (6, 41103), (Start: 7 @41064 has 23 MA's), (18, 40902), (28, 40839), (30, 40812), (31, 40800), (34, 40746), (35, 40743), (36, 40722), (42, 40656), (44, 40650),

Gene: Gremlin23_79 Start: 41064, Stop: 40609, Start Num: 7

Candidate Starts for Gremlin23_79:

(2, 41208), (6, 41103), (Start: 7 @41064 has 23 MA's), (18, 40902), (28, 40839), (30, 40812), (31, 40800), (34, 40746), (35, 40743), (36, 40722), (42, 40656), (44, 40650),

Gene: HaugeAnator_81 Start: 41635, Stop: 41180, Start Num: 7

Candidate Starts for HaugeAnator_81:

(Start: 7 @41635 has 23 MA's), (10, 41590), (15, 41518), (16, 41491), (23, 41440), (24, 41434), (28, 41401), (38, 41260), (39, 41242), (46, 41191),

Gene: Immanuel3_79 Start: 41640, Stop: 41185, Start Num: 7

Candidate Starts for Immanuel3_79:

(Start: 7 @41640 has 23 MA's), (10, 41595), (15, 41523), (16, 41496), (23, 41445), (24, 41439), (28, 41406), (38, 41265),

Gene: JPandJE_80 Start: 41986, Stop: 41531, Start Num: 7

Candidate Starts for JPandJE_80:

(Start: 7 @41986 has 23 MA's), (10, 41941), (15, 41869), (19, 41830), (23, 41791), (24, 41785), (28, 41752), (38, 41611), (39, 41593),

Gene: Kumquat_77 Start: 39787, Stop: 39350, Start Num: 7

Candidate Starts for Kumquat_77:

(1, 39967), (4, 39832), (Start: 7 @39787 has 23 MA's), (9, 39763), (10, 39742), (14, 39679), (15, 39673), (16, 39646), (20, 39628), (23, 39604), (24, 39598), (25, 39592), (32, 39523), (34, 39472), (43, 39385), (44, 39382), (45, 39373),

Gene: Manuel_78 Start: 40696, Stop: 40259, Start Num: 7

Candidate Starts for Manuel_78:

(Start: 7 @40696 has 23 MA's), (9, 40672), (11, 40642), (16, 40552), (17, 40546), (22, 40510), (23, 40501), (24, 40495), (27, 40483), (28, 40462), (32, 40423), (44, 40291),

Gene: Olicious_81 Start: 41638, Stop: 41183, Start Num: 7

Candidate Starts for Olicious_81:

(Start: 7 @41638 has 23 MA's), (10, 41593), (15, 41521), (19, 41482), (23, 41443), (24, 41437), (28, 41404), (38, 41263), (39, 41245), (46, 41194),

Gene: Percastrophe_81 Start: 41570, Stop: 41115, Start Num: 7

Candidate Starts for Percastrophe_81:

(Start: 7 @41570 has 23 MA's), (10, 41525), (15, 41453), (16, 41426), (23, 41375), (24, 41369), (28, 41336), (38, 41195), (39, 41177),

Gene: RetrieverFever_79 Start: 41064, Stop: 40609, Start Num: 7

Candidate Starts for RetrieverFever_79:

(2, 41208), (6, 41103), (Start: 7 @41064 has 23 MA's), (18, 40902), (28, 40839), (30, 40812), (31, 40800), (34, 40746), (35, 40743), (36, 40722), (42, 40656), (44, 40650),

Gene: Rideau_84 Start: 41379, Stop: 40945, Start Num: 7

Candidate Starts for Rideau_84:

(6, 41412), (Start: 7 @41379 has 23 MA's), (8, 41370), (9, 41352), (11, 41322), (12, 41295), (16, 41235), (23, 41193), (24, 41187), (26, 41178), (29, 41142), (34, 41058), (37, 41043), (44, 40977),

Gene: Romero_81 Start: 41631, Stop: 41176, Start Num: 7

Candidate Starts for Romero_81:

(Start: 7 @41631 has 23 MA's), (10, 41586), (15, 41514), (16, 41487), (23, 41436), (24, 41430), (28, 41397), (38, 41256),

Gene: RosePharie_81 Start: 41202, Stop: 40765, Start Num: 7

Candidate Starts for RosePharie_81:

(Start: 7 @41202 has 23 MA's), (9, 41178), (11, 41148), (16, 41058), (17, 41052), (22, 41016), (23, 41007), (24, 41001), (28, 40968), (32, 40929), (44, 40797),

Gene: Stella_81 Start: 41614, Stop: 41180, Start Num: 7

Candidate Starts for Stella_81:

(Start: 7 @41614 has 23 MA's), (8, 41605), (11, 41557), (12, 41530), (13, 41506), (16, 41470), (21, 41449), (23, 41428), (24, 41422), (32, 41344), (41, 41236), (42, 41218),

Gene: ToriToki_81 Start: 41634, Stop: 41179, Start Num: 7

Candidate Starts for ToriToki_81:

(Start: 7 @41634 has 23 MA's), (10, 41589), (15, 41517), (16, 41490), (23, 41439), (24, 41433), (28, 41400), (38, 41259),

Gene: Treat_81 Start: 41508, Stop: 41053, Start Num: 7

Candidate Starts for Treat_81:

(Start: 7 @41508 has 23 MA's), (10, 41463), (15, 41391), (19, 41352), (23, 41313), (24, 41307), (28, 41274), (38, 41133), (39, 41115),

Gene: Vorvolakos_80 Start: 41063, Stop: 40608, Start Num: 7

Candidate Starts for Vorvolakos_80:

(2, 41207), (6, 41102), (Start: 7 @41063 has 23 MA's), (18, 40901), (28, 40838), (30, 40811), (31, 40799), (34, 40745), (35, 40742), (36, 40721), (42, 40655), (44, 40649),

Gene: WRightOn_81 Start: 39943, Stop: 39506, Start Num: 7

Candidate Starts for WRightOn_81:

(1, 40123), (4, 39988), (Start: 7 @39943 has 23 MA's), (9, 39919), (10, 39898), (14, 39835), (15, 39829), (16, 39802), (20, 39784), (23, 39760), (24, 39754), (25, 39748), (32, 39679), (34, 39628), (43, 39541), (44, 39538), (45, 39529),

Gene: Zeigle_77 Start: 39787, Stop: 39350, Start Num: 7

Candidate Starts for Zeigle_77:

(1, 39967), (4, 39832), (Start: 7 @39787 has 23 MA's), (9, 39763), (10, 39742), (14, 39679), (15, 39673), (16, 39646), (20, 39628), (23, 39604), (24, 39598), (25, 39592), (32, 39523), (34, 39472), (43, 39385), (44, 39382), (45, 39373),

Gene: ZooBear_81 Start: 41635, Stop: 41180, Start Num: 7

Candidate Starts for ZooBear_81:

(Start: 7 @41635 has 23 MA's), (10, 41590), (15, 41518), (16, 41491), (23, 41440), (24, 41434), (28, 41401), (38, 41260), (39, 41242), (46, 41191),