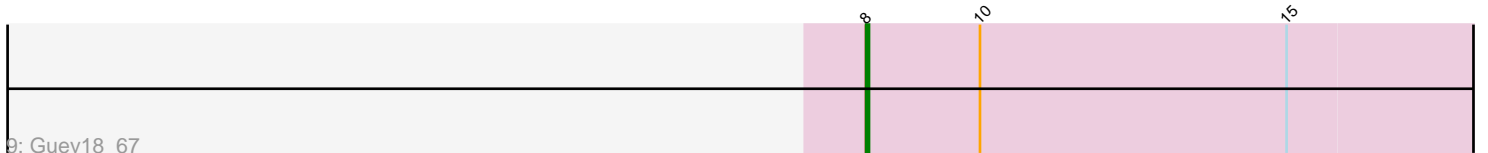
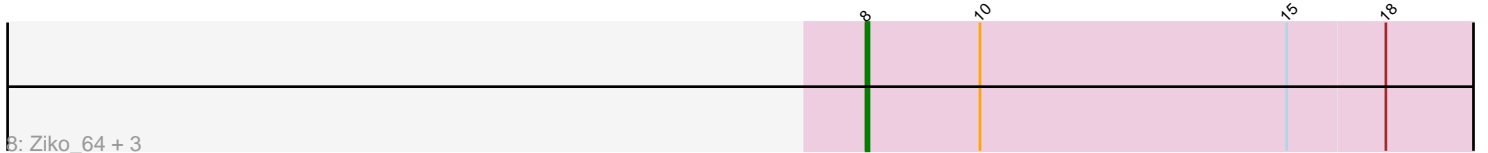
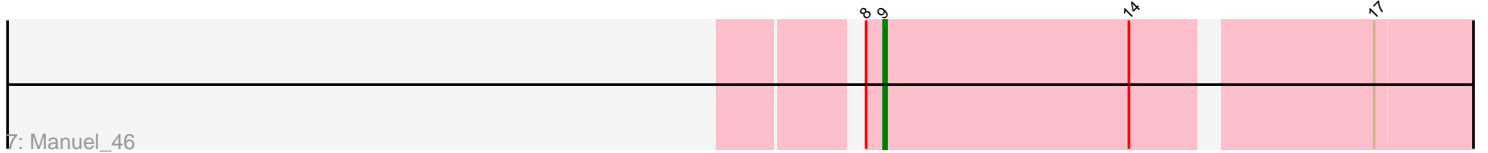
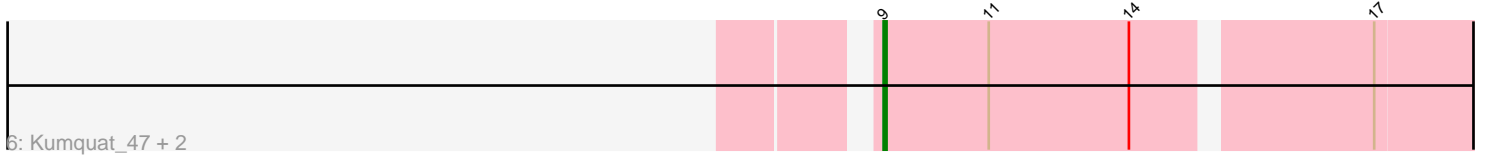
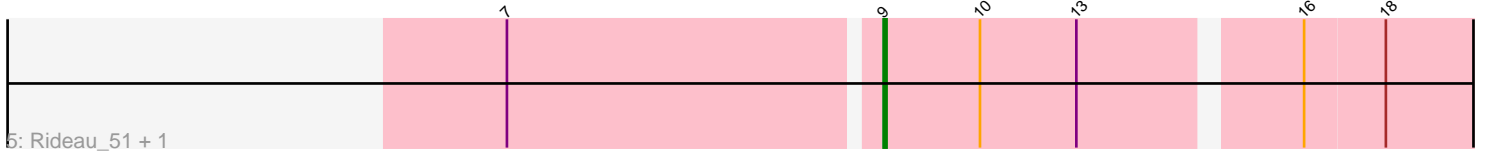
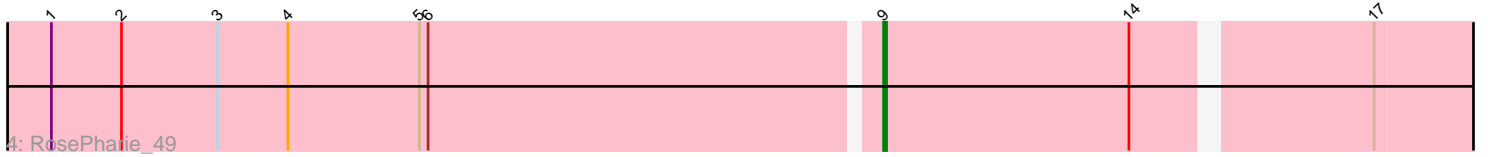
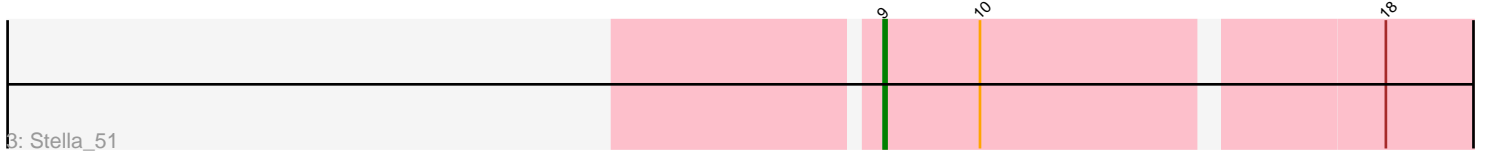
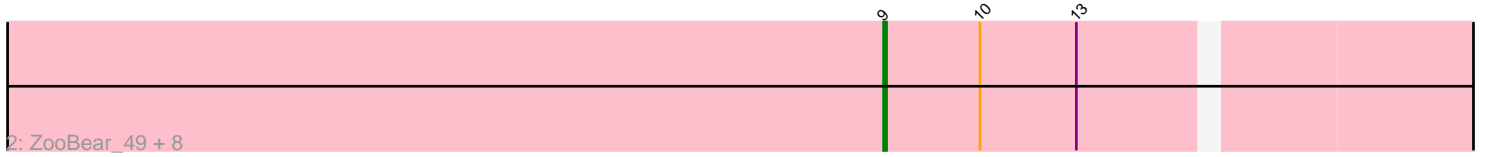
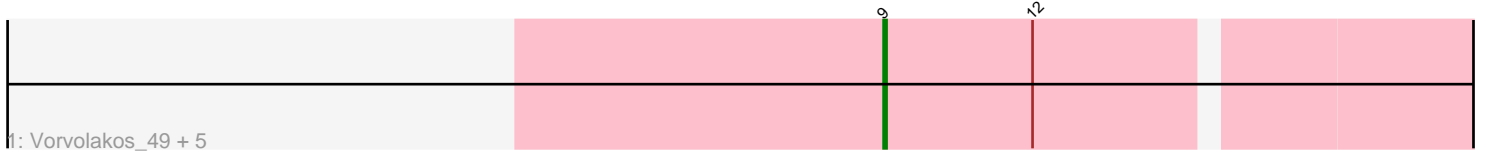


Pham 158096



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 158096 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158096 has 29 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Vorvolakos_49, Geostin_44, Fabian_46, Gremlin23_49, FlowerPower_49, RetrieverFever_49
- Track 2 : ZooBear_49, Olicious_49, Romero_49, Immanuel3_49, ToriToki_49, Percastrophe_49, Treat_49, HaugeAnator_49, JPandJE_50
- Track 3 : Stella_51
- Track 4 : RosePharie_49
- Track 5 : Rideau_51, Dennebes_50
- Track 6 : Kumquat_47, Zeigle_47, WRightOn_50
- Track 7 : Manuel_46
- Track 8 : Ziko_64, Volt_64, Fryberger_61, Ronaldo_64
- Track 9 : Guey18_67
- Track 10 : Keelan_59

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 21 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dennebes_50, Fabian_46, FlowerPower_49, Geostin_44, Gremlin23_49, HaugeAnator_49, Immanuel3_49, JPandJE_50, Kumquat_47, Manuel_46, Olicious_49, Percastrophe_49, RetrieverFever_49, Rideau_51, Romero_49, RosePharie_49, Stella_51, ToriToki_49, Treat_49, Vorvolakos_49, WRightOn_50, Zeigle_47, ZooBear_49,

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

-

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

- Fryberger_61, Guey18_67, Keelan_59, Ronaldo_64, Volt_64, Ziko_64,

Summary by start number:

Start 8:

- Found in 7 of 29 (24.1%) of genes in pham
- Manual Annotations of this start: 6 of 27
- Called 85.7% of time when present
- Phage (with cluster) where this start called: Fryberger_61 (DP), Guey18_67 (DP), Keelan_59 (DP), Ronaldo_64 (DP), Volt_64 (DP), Ziko_64 (DP),

Start 9:

- Found in 23 of 29 (79.3%) of genes in pham
- Manual Annotations of this start: 21 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dennebes_50 (BF), Fabian_46 (BF), FlowerPower_49 (BF), Geostin_44 (BF), Gremlin23_49 (BF), HaugeAnator_49 (BF), Immanuel3_49 (BF), JPandJE_50 (BF), Kumquat_47 (BF), Manuel_46 (BF), Olicious_49 (BF), Percastrophe_49 (BF), RetrieverFever_49 (BF), Rideau_51 (BF), Romero_49 (BF), RosePharie_49 (BF), Stella_51 (BF), ToriToki_49 (BF), Treat_49 (BF), Vorvolakos_49 (BF), WRightOn_50 (BF), Zeigle_47 (BF), ZooBear_49 (BF),

Summary by clusters:

There are 2 clusters represented in this pham: BF, DP,

Info for manual annotations of cluster BF:

- Start number 9 was manually annotated 21 times for cluster BF.

Info for manual annotations of cluster DP:

- Start number 8 was manually annotated 6 times for cluster DP.

Gene Information:

Gene: Dennebes_50 Start: 27480, Stop: 27677, Start Num: 9

Candidate Starts for Dennebes_50:

(7, 27357), (Start: 9 @27480 has 21 MA's), (10, 27513), (13, 27546), (16, 27615), (18, 27642),

Gene: Fabian_46 Start: 27549, Stop: 27746, Start Num: 9

Candidate Starts for Fabian_46:

(Start: 9 @27549 has 21 MA's), (12, 27600),

Gene: FlowerPower_49 Start: 27549, Stop: 27746, Start Num: 9

Candidate Starts for FlowerPower_49:

(Start: 9 @27549 has 21 MA's), (12, 27600),

Gene: Fryberger_61 Start: 34752, Stop: 34964, Start Num: 8

Candidate Starts for Fryberger_61:

(Start: 8 @34752 has 6 MA's), (10, 34791), (15, 34896), (18, 34929),

Gene: Geostin_44 Start: 27549, Stop: 27746, Start Num: 9

Candidate Starts for Geostin_44:

(Start: 9 @27549 has 21 MA's), (12, 27600),

Gene: Gremlin23_49 Start: 27549, Stop: 27746, Start Num: 9

Candidate Starts for Gremlin23_49:

(Start: 9 @27549 has 21 MA's), (12, 27600),

Gene: Guey18_67 Start: 36272, Stop: 36484, Start Num: 8

Candidate Starts for Guey18_67:

(Start: 8 @36272 has 6 MA's), (10, 36311), (15, 36416),

Gene: HaugeAnator_49 Start: 27959, Stop: 28156, Start Num: 9

Candidate Starts for HaugeAnator_49:

(Start: 9 @27959 has 21 MA's), (10, 27992), (13, 28025),

Gene: Immanuel3_49 Start: 27963, Stop: 28160, Start Num: 9

Candidate Starts for Immanuel3_49:

(Start: 9 @27963 has 21 MA's), (10, 27996), (13, 28029),

Gene: JPandJE_50 Start: 28427, Stop: 28624, Start Num: 9

Candidate Starts for JPandJE_50:

(Start: 9 @28427 has 21 MA's), (10, 28460), (13, 28493),

Gene: Keelan_59 Start: 34992, Stop: 35204, Start Num: 8

Candidate Starts for Keelan_59:

(Start: 8 @34992 has 6 MA's), (10, 35031), (11, 35034), (15, 35136),

Gene: Kumquat_47 Start: 27506, Stop: 27703, Start Num: 9

Candidate Starts for Kumquat_47:

(Start: 9 @27506 has 21 MA's), (11, 27542), (14, 27590), (17, 27665),

Gene: Manuel_46 Start: 27594, Stop: 27791, Start Num: 9

Candidate Starts for Manuel_46:

(Start: 8 @27588 has 6 MA's), (Start: 9 @27594 has 21 MA's), (14, 27678), (17, 27753),

Gene: Olicious_49 Start: 27959, Stop: 28156, Start Num: 9

Candidate Starts for Olicious_49:

(Start: 9 @27959 has 21 MA's), (10, 27992), (13, 28025),

Gene: Percastrophe_49 Start: 27893, Stop: 28090, Start Num: 9

Candidate Starts for Percastrophe_49:

(Start: 9 @27893 has 21 MA's), (10, 27926), (13, 27959),

Gene: RetrieverFever_49 Start: 27549, Stop: 27746, Start Num: 9

Candidate Starts for RetrieverFever_49:

(Start: 9 @27549 has 21 MA's), (12, 27600),

Gene: Rideau_51 Start: 27480, Stop: 27677, Start Num: 9

Candidate Starts for Rideau_51:

(7, 27357), (Start: 9 @27480 has 21 MA's), (10, 27513), (13, 27546), (16, 27615), (18, 27642),

Gene: Romero_49 Start: 27952, Stop: 28149, Start Num: 9

Candidate Starts for Romero_49:

(Start: 9 @27952 has 21 MA's), (10, 27985), (13, 28018),

Gene: Ronaldo_64 Start: 35651, Stop: 35863, Start Num: 8

Candidate Starts for Ronaldo_64:

(Start: 8 @35651 has 6 MA's), (10, 35690), (15, 35795), (18, 35828),

Gene: RosePharie_49 Start: 28196, Stop: 28393, Start Num: 9

Candidate Starts for RosePharie_49:

(1, 27917), (2, 27941), (3, 27974), (4, 27998), (5, 28043), (6, 28046), (Start: 9 @28196 has 21 MA's), (14, 28280), (17, 28355),

Gene: Stella_51 Start: 28187, Stop: 28384, Start Num: 9

Candidate Starts for Stella_51:

(Start: 9 @28187 has 21 MA's), (10, 28220), (18, 28349),

Gene: ToriToki_49 Start: 27955, Stop: 28152, Start Num: 9

Candidate Starts for ToriToki_49:

(Start: 9 @27955 has 21 MA's), (10, 27988), (13, 28021),

Gene: Treat_49 Start: 27896, Stop: 28093, Start Num: 9

Candidate Starts for Treat_49:

(Start: 9 @27896 has 21 MA's), (10, 27929), (13, 27962),

Gene: Volt_64 Start: 35815, Stop: 36027, Start Num: 8

Candidate Starts for Volt_64:

(Start: 8 @35815 has 6 MA's), (10, 35854), (15, 35959), (18, 35992),

Gene: Vorvolakos_49 Start: 27548, Stop: 27745, Start Num: 9

Candidate Starts for Vorvolakos_49:

(Start: 9 @27548 has 21 MA's), (12, 27599),

Gene: WRightOn_50 Start: 27662, Stop: 27859, Start Num: 9

Candidate Starts for WRightOn_50:

(Start: 9 @27662 has 21 MA's), (11, 27698), (14, 27746), (17, 27821),

Gene: Zeigle_47 Start: 27506, Stop: 27703, Start Num: 9

Candidate Starts for Zeigle_47:

(Start: 9 @27506 has 21 MA's), (11, 27542), (14, 27590), (17, 27665),

Gene: Ziko_64 Start: 35637, Stop: 35849, Start Num: 8

Candidate Starts for Ziko_64:

(Start: 8 @35637 has 6 MA's), (10, 35676), (15, 35781), (18, 35814),

Gene: ZooBear_49 Start: 27959, Stop: 28156, Start Num: 9

Candidate Starts for ZooBear_49:

(Start: 9 @27959 has 21 MA's), (10, 27992), (13, 28025),