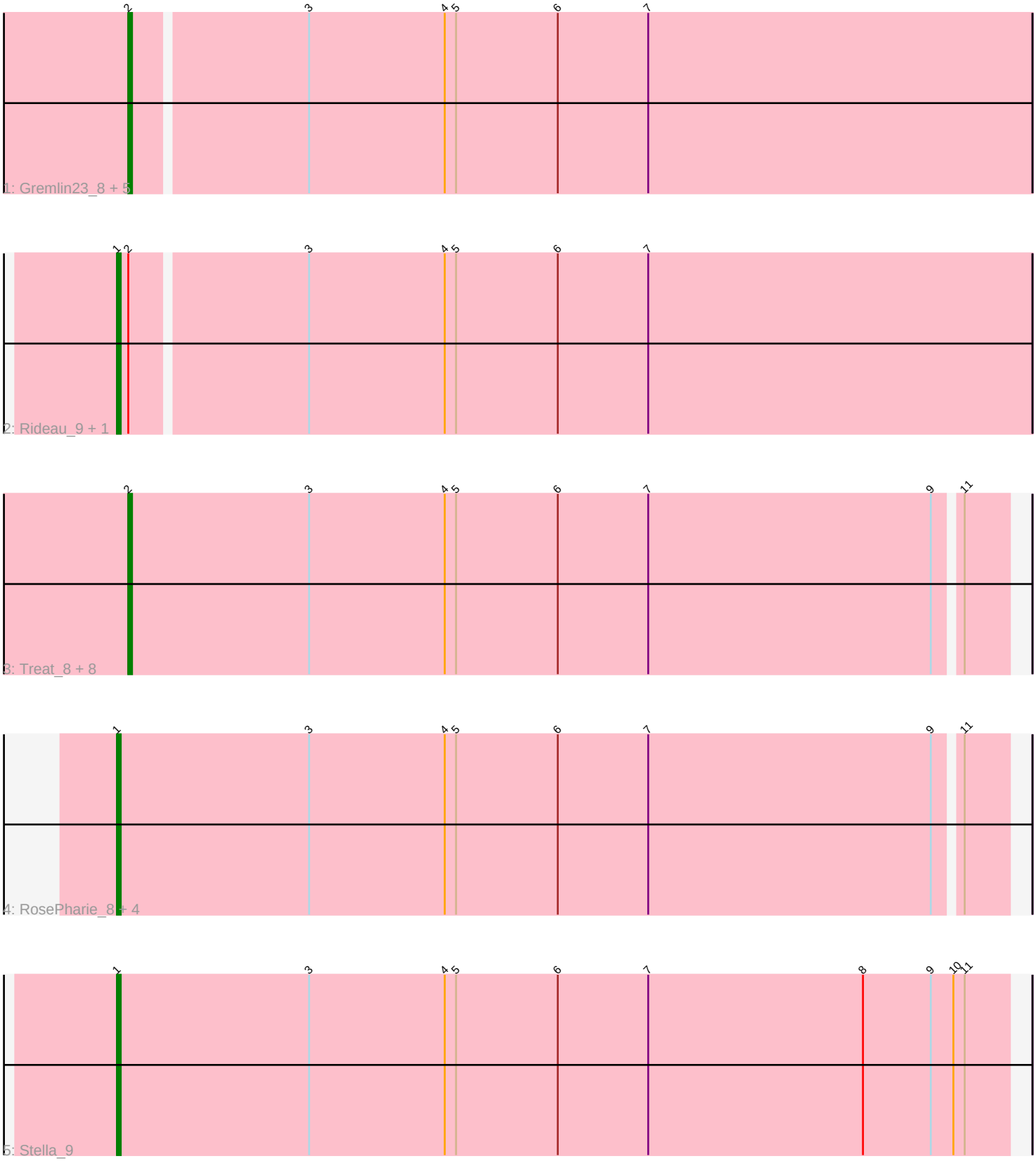
Pham 4006


1: Gremlin23_8 + 5
2: Rideau_9 + 1
3: Treat_8 + 8
4: RosePharie_8 + 4
5: Stella_9

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 4006 Report

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

Pham number 4006 has 23 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Gremlin23_8, FlowerPower_8, Geostin_8, RetrieverFever_8, Fabian_8, Vorvolakos_8
• Track 2 : Rideau_9, Dennebes_8
• Track 3 : Treat_8, Percastrophe_8, JPandJE_9, Romero_8, Immanuel3_8, ToriToki_8, HaugeAnator_8, ZooBear_8, Olicious_8
• Track 4 : RosePharie_8, Manuel_9, Kumquat_8, WRightOn_9, Zeigle_8
• Track 5 : Stella_9

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

The start number called the most often in the published annotations is 2, it was called in 14 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Fabian_8, FlowerPower_8, Geostin_8, Gremlin23_8, HaugeAnator_8, Immanuel3_8, JPandJE_9, Olicious_8, Percastrophe_8, RetrieverFever_8, Romero_8, ToriToki_8, Treat_8, Vorvolakos_8, ZooBear_8,

Genes that have the "Most Annotated" start but do not call it:
• Dennebes_8, Rideau_9,

Genes that do not have the "Most Annotated" start:
• Kumquat_8, Manuel_9, RosePharie_8, Stella_9, WRightOn_9, Zeigle_8,

Summary by start number:

Start 1:
• Found in 8 of 23 (34.8%) of genes in pham
• Manual Annotations of this start: 7 of 21
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dennebes_8 (BF), Kumquat_8 (BF), Manuel_9 (BF), Rideau_9 (BF), RosePharie_8 (BF), Stella_9 (BF), WRightOn_9 (BF), Zeigle_8 (BF),

Start 2:
• Found in 17 of 23 (73.9%) of genes in pham
• Manual Annotations of this start: 14 of 21
• Called 88.2% of time when present
• Phage (with cluster) where this start called: Fabian_8 (BF), FlowerPower_8 (BF), Geostin_8 (BF), Gremlin23_8 (BF), HaugeAnator_8 (BF), Immanuel3_8 (BF), JPandJE_9 (BF), Olicious_8 (BF), Percastrophe_8 (BF), RetrieverFever_8 (BF), Romero_8 (BF), ToriToki_8 (BF), Treat_8 (BF), Vorvolakos_8 (BF), ZooBear_8 (BF),

Summary by clusters:

There is one cluster represented in this pham: BF

Info for manual annotations of cluster BF:
•Start number 1 was manually annotated 7 times for cluster BF.
•Start number 2 was manually annotated 14 times for cluster BF.

Gene Information:

Gene: Dennebes_8 Start: 6359, Stop: 6598, Start Num: 1
Candidate Starts for Dennebes_8:
(Start: 1 @6359 has 7 MA's), (Start: 2 @6362 has 14 MA's), (3, 6407), (4, 6443), (5, 6446), (6, 6473), (7, 6497),

Gene: Fabian_8 Start: 6204, Stop: 6440, Start Num: 2
Candidate Starts for Fabian_8:
(Start: 2 @6204 has 14 MA's), (3, 6249), (4, 6285), (5, 6288), (6, 6315), (7, 6339),

Gene: FlowerPower_8 Start: 6204, Stop: 6440, Start Num: 2
Candidate Starts for FlowerPower_8:
(Start: 2 @6204 has 14 MA's), (3, 6249), (4, 6285), (5, 6288), (6, 6315), (7, 6339),

Gene: Geostin_8 Start: 6204, Stop: 6440, Start Num: 2
Candidate Starts for Geostin_8:
(Start: 2 @6204 has 14 MA's), (3, 6249), (4, 6285), (5, 6288), (6, 6315), (7, 6339),

Gene: Gremlin23_8 Start: 6204, Stop: 6440, Start Num: 2
Candidate Starts for Gremlin23_8:
(Start: 2 @6204 has 14 MA's), (3, 6249), (4, 6285), (5, 6288), (6, 6315), (7, 6339),

Gene: HaugeAnator_8 Start: 6268, Stop: 6498, Start Num: 2
Candidate Starts for HaugeAnator_8:
(Start: 2 @6268 has 14 MA's), (3, 6316), (4, 6352), (5, 6355), (6, 6382), (7, 6406), (9, 6481), (11, 6487),

Gene: Immanuel3_8 Start: 6272, Stop: 6502, Start Num: 2
Candidate Starts for Immanuel3_8:
(Start: 2 @6272 has 14 MA's), (3, 6320), (4, 6356), (5, 6359), (6, 6386), (7, 6410), (9, 6485), (11, 6491),

Gene: JPandJE_9 Start: 6628, Stop: 6858, Start Num: 2

Candidate Starts for JPandJE_9:
(Start: 2 @6628 has 14 MA's), (3, 6676), (4, 6712), (5, 6715), (6, 6742), (7, 6766), (9, 6841), (11, 6847),

Gene: Kumquat_8 Start: 6227, Stop: 6460, Start Num: 1
Candidate Starts for Kumquat_8:
(Start: 1 @6227 has 7 MA's), (3, 6278), (4, 6314), (5, 6317), (6, 6344), (7, 6368), (9, 6443), (11, 6449),

Gene: Manuel_9 Start: 6667, Stop: 6900, Start Num: 1
Candidate Starts for Manuel_9:
(Start: 1 @6667 has 7 MA's), (3, 6718), (4, 6754), (5, 6757), (6, 6784), (7, 6808), (9, 6883), (11, 6889),

Gene: Olicious_8 Start: 6268, Stop: 6498, Start Num: 2
Candidate Starts for Olicious_8:
(Start: 2 @6268 has 14 MA's), (3, 6316), (4, 6352), (5, 6355), (6, 6382), (7, 6406), (9, 6481), (11, 6487),

Gene: Percastrophe_8 Start: 6261, Stop: 6491, Start Num: 2
Candidate Starts for Percastrophe_8:
(Start: 2 @6261 has 14 MA's), (3, 6309), (4, 6345), (5, 6348), (6, 6375), (7, 6399), (9, 6474), (11, 6480),

Gene: RetrieverFever_8 Start: 6204, Stop: 6440, Start Num: 2
Candidate Starts for RetrieverFever_8:
(Start: 2 @6204 has 14 MA's), (3, 6249), (4, 6285), (5, 6288), (6, 6315), (7, 6339),

Gene: Rideau_9 Start: 6359, Stop: 6598, Start Num: 1
Candidate Starts for Rideau_9:
(Start: 1 @6359 has 7 MA's), (Start: 2 @6362 has 14 MA's), (3, 6407), (4, 6443), (5, 6446), (6, 6473), (7, 6497),

Gene: Romero_8 Start: 6261, Stop: 6491, Start Num: 2
Candidate Starts for Romero_8:
(Start: 2 @6261 has 14 MA's), (3, 6309), (4, 6345), (5, 6348), (6, 6375), (7, 6399), (9, 6474), (11, 6480),

Gene: RosePharie_8 Start: 6382, Stop: 6615, Start Num: 1
Candidate Starts for RosePharie_8:
(Start: 1 @6382 has 7 MA's), (3, 6433), (4, 6469), (5, 6472), (6, 6499), (7, 6523), (9, 6598), (11, 6604),

Gene: Stella_9 Start: 6209, Stop: 6445, Start Num: 1
Candidate Starts for Stella_9:
(Start: 1 @6209 has 7 MA's), (3, 6260), (4, 6296), (5, 6299), (6, 6326), (7, 6350), (8, 6407), (9, 6425), (10, 6431), (11, 6434),

Gene: ToriToki_8 Start: 6261, Stop: 6491, Start Num: 2
Candidate Starts for ToriToki_8:
(Start: 2 @6261 has 14 MA's), (3, 6309), (4, 6345), (5, 6348), (6, 6375), (7, 6399), (9, 6474), (11, 6480),

Gene: Treat_8 Start: 6261, Stop: 6491, Start Num: 2
Candidate Starts for Treat_8:

(Start: 2 @6261 has 14 MA's), (3, 6309), (4, 6345), (5, 6348), (6, 6375), (7, 6399), (9, 6474), (11, 6480),

Gene: Vorvolakos_8 Start: 6203, Stop: 6439, Start Num: 2
Candidate Starts for Vorvolakos_8:
(Start: 2 @6203 has 14 MA's), (3, 6248), (4, 6284), (5, 6287), (6, 6314), (7, 6338),

Gene: WRightOn_9 Start: 6608, Stop: 6841, Start Num: 1
Candidate Starts for WRightOn_9:
(Start: 1 @6608 has 7 MA's), (3, 6659), (4, 6695), (5, 6698), (6, 6725), (7, 6749), (9, 6824), (11, 6830),

Gene: Zeigle_8 Start: 6227, Stop: 6460, Start Num: 1
Candidate Starts for Zeigle_8:
(Start: 1 @6227 has 7 MA's), (3, 6278), (4, 6314), (5, 6317), (6, 6344), (7, 6368), (9, 6443), (11, 6449),

Gene: ZooBear_8 Start: 6268, Stop: 6498, Start Num: 2
Candidate Starts for ZooBear_8:
(Start: 2 @6268 has 14 MA's), (3, 6316), (4, 6352), (5, 6355), (6, 6382), (7, 6406), (9, 6481), (11, 6487),