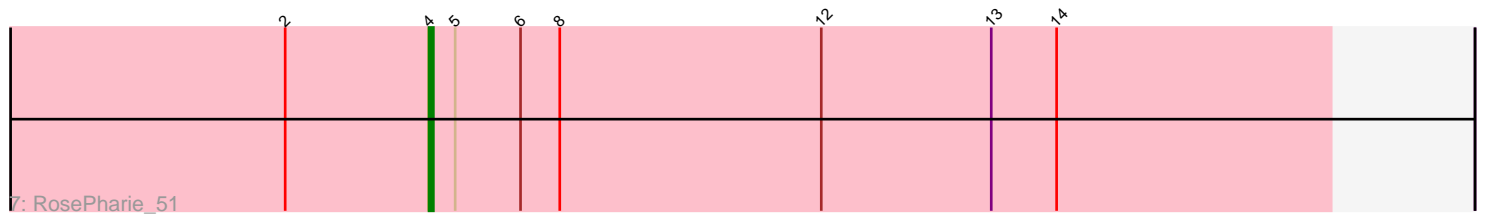
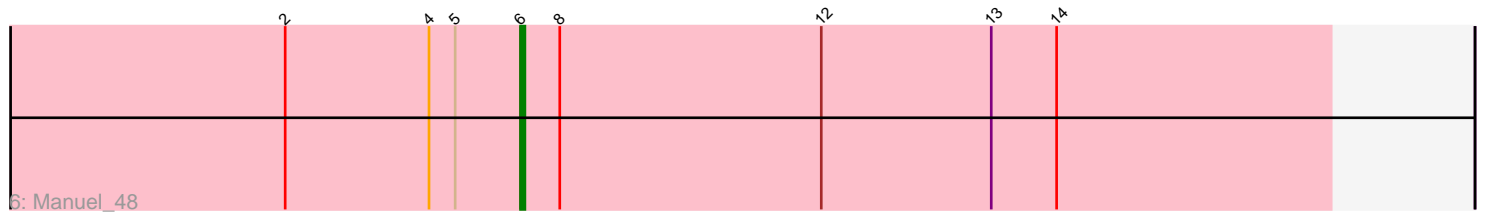
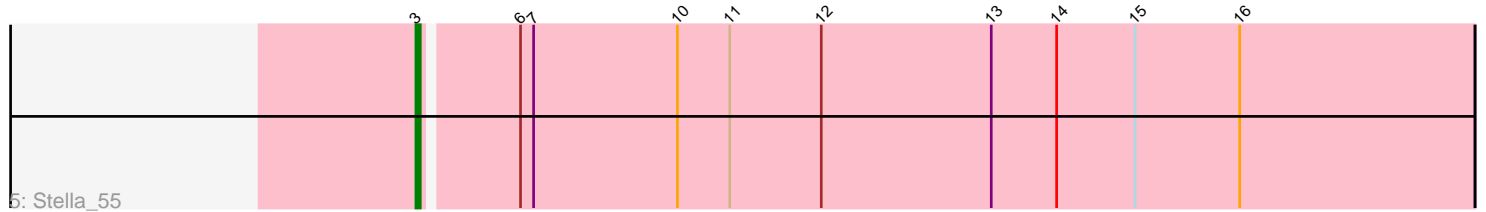
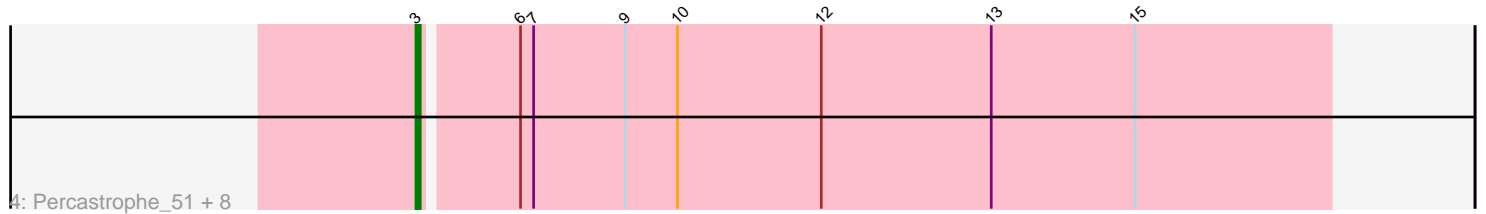
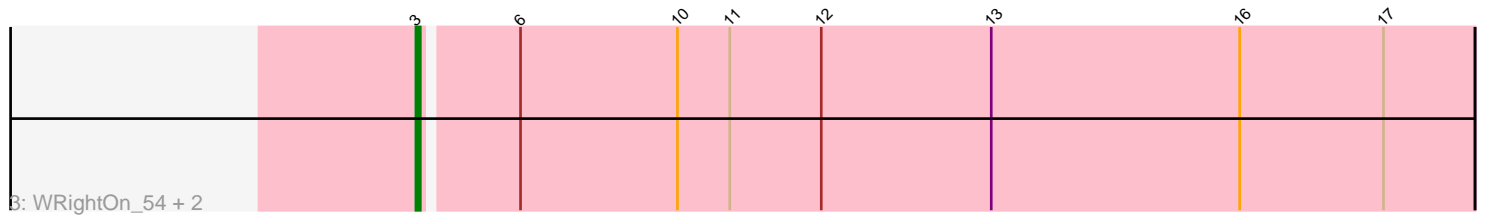
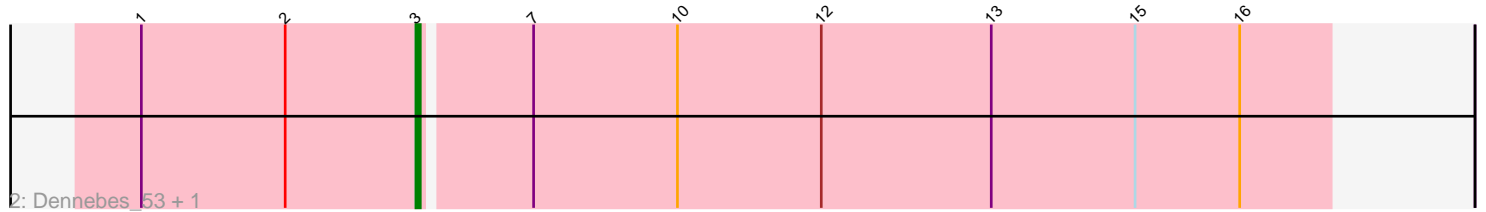
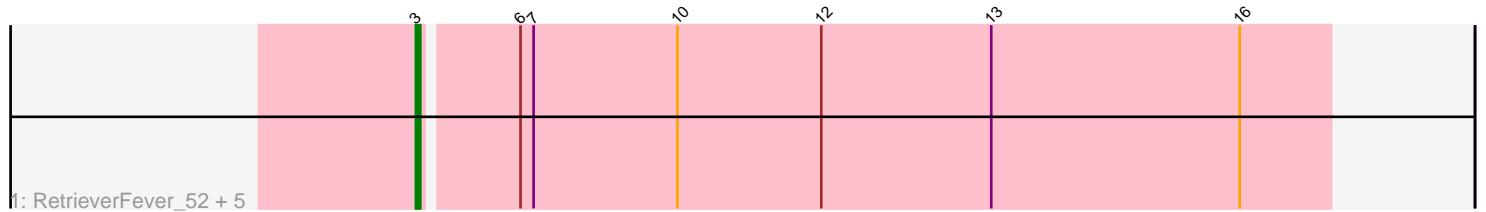


# Pham 4036



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 4036 Report

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

Pham number 4036 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : RetrieverFever\_52, Gremlin23\_52, Fabian\_49, FlowerPower\_52, Vorvolakos\_52, Geostin\_47
- Track 2 : Dennebes\_53, Rideau\_54
- Track 3 : WRightOn\_54, Kumquat\_51, Zeigle\_51
- Track 4 : Percastrophe\_51, ZooBear\_51, Treat\_51, Immanuel3\_50, Romero\_51, Olicious\_51, JPandJE\_52, ToriToki\_51, HaugeAnator\_51
- Track 5 : Stella\_55
- Track 6 : Manuel\_48
- Track 7 : RosePharie\_51

### ***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 19 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dennebes\_53, Fabian\_49, FlowerPower\_52, Geostin\_47, Gremlin23\_52, HaugeAnator\_51, Immanuel3\_50, JPandJE\_52, Kumquat\_51, Olicious\_51, Percastrophe\_51, RetrieverFever\_52, Rideau\_54, Romero\_51, Stella\_55, ToriToki\_51, Treat\_51, Vorvolakos\_52, WRightOn\_54, Zeigle\_51, ZooBear\_51,

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

- 

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

- Manuel\_48, RosePharie\_51,

### **Summary by start number:**

Start 3:

- Found in 21 of 23 ( 91.3% ) of genes in pham
- Manual Annotations of this start: 19 of 21
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Dennebes\_53 (BF), Fabian\_49 (BF), FlowerPower\_52 (BF), Geostin\_47 (BF), Gremlin23\_52 (BF), HaugeAnator\_51 (BF), Immanuel3\_50 (BF), JPandJE\_52 (BF), Kumquat\_51 (BF), Olicious\_51 (BF), Percastrophe\_51 (BF), RetrieverFever\_52 (BF), Rideau\_54 (BF), Romero\_51 (BF), Stella\_55 (BF), ToriToki\_51 (BF), Treat\_51 (BF), Vorvolakos\_52 (BF), WRightOn\_54 (BF), Zeigle\_51 (BF), ZooBear\_51 (BF),

#### Start 4:

- Found in 2 of 23 ( 8.7% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 50.0% of time when present
- Phage (with cluster) where this start called: RosePharie\_51 (BF),

#### Start 6:

- Found in 21 of 23 ( 91.3% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 4.8% of time when present
- Phage (with cluster) where this start called: Manuel\_48 (BF),

### Summary by clusters:

There is one cluster represented in this pham: BF

Info for manual annotations of cluster BF:

- Start number 3 was manually annotated 19 times for cluster BF.
- Start number 4 was manually annotated 1 time for cluster BF.
- Start number 6 was manually annotated 1 time for cluster BF.

### Gene Information:

Gene: Dennebes\_53 Start: 28490, Stop: 28284, Start Num: 3

Candidate Starts for Dennebes\_53:

(1, 28553), (2, 28520), (Start: 3 @28490 has 19 MA's), (7, 28466), (10, 28433), (12, 28400), (13, 28361), (15, 28328), (16, 28304),

Gene: Fabian\_49 Start: 28382, Stop: 28176, Start Num: 3

Candidate Starts for Fabian\_49:

(Start: 3 @28382 has 19 MA's), (Start: 6 @28361 has 1 MA's), (7, 28358), (10, 28325), (12, 28292), (13, 28253), (16, 28196),

Gene: FlowerPower\_52 Start: 28382, Stop: 28176, Start Num: 3

Candidate Starts for FlowerPower\_52:

(Start: 3 @28382 has 19 MA's), (Start: 6 @28361 has 1 MA's), (7, 28358), (10, 28325), (12, 28292), (13, 28253), (16, 28196),

Gene: Geostin\_47 Start: 28382, Stop: 28176, Start Num: 3

Candidate Starts for Geostin\_47:

(Start: 3 @28382 has 19 MA's), (Start: 6 @28361 has 1 MA's), (7, 28358), (10, 28325), (12, 28292), (13, 28253), (16, 28196),

Gene: Gremlin23\_52 Start: 28382, Stop: 28176, Start Num: 3

Candidate Starts for Gremlin23\_52:

(Start: 3 @28382 has 19 MA's), (Start: 6 @28361 has 1 MA's), (7, 28358), (10, 28325), (12, 28292), (13, 28253), (16, 28196),

Gene: HaugeAnator\_51 Start: 28555, Stop: 28349, Start Num: 3

Candidate Starts for HaugeAnator\_51:

(Start: 3 @28555 has 19 MA's), (Start: 6 @28534 has 1 MA's), (7, 28531), (9, 28510), (10, 28498), (12, 28465), (13, 28426), (15, 28393),

Gene: Immanuel3\_50 Start: 28558, Stop: 28352, Start Num: 3

Candidate Starts for Immanuel3\_50:

(Start: 3 @28558 has 19 MA's), (Start: 6 @28537 has 1 MA's), (7, 28534), (9, 28513), (10, 28501), (12, 28468), (13, 28429), (15, 28396),

Gene: JPandJE\_52 Start: 29023, Stop: 28817, Start Num: 3

Candidate Starts for JPandJE\_52:

(Start: 3 @29023 has 19 MA's), (Start: 6 @29002 has 1 MA's), (7, 28999), (9, 28978), (10, 28966), (12, 28933), (13, 28894), (15, 28861),

Gene: Kumquat\_51 Start: 28599, Stop: 28360, Start Num: 3

Candidate Starts for Kumquat\_51:

(Start: 3 @28599 has 19 MA's), (Start: 6 @28578 has 1 MA's), (10, 28542), (11, 28530), (12, 28509), (13, 28470), (16, 28413), (17, 28380),

Gene: Manuel\_48 Start: 28170, Stop: 27985, Start Num: 6

Candidate Starts for Manuel\_48:

(2, 28224), (Start: 4 @28191 has 1 MA's), (5, 28185), (Start: 6 @28170 has 1 MA's), (8, 28161), (12, 28101), (13, 28062), (14, 28047),

Gene: Olicious\_51 Start: 28555, Stop: 28349, Start Num: 3

Candidate Starts for Olicious\_51:

(Start: 3 @28555 has 19 MA's), (Start: 6 @28534 has 1 MA's), (7, 28531), (9, 28510), (10, 28498), (12, 28465), (13, 28426), (15, 28393),

Gene: Percastrophe\_51 Start: 28489, Stop: 28283, Start Num: 3

Candidate Starts for Percastrophe\_51:

(Start: 3 @28489 has 19 MA's), (Start: 6 @28468 has 1 MA's), (7, 28465), (9, 28444), (10, 28432), (12, 28399), (13, 28360), (15, 28327),

Gene: RetrieverFever\_52 Start: 28382, Stop: 28176, Start Num: 3

Candidate Starts for RetrieverFever\_52:

(Start: 3 @28382 has 19 MA's), (Start: 6 @28361 has 1 MA's), (7, 28358), (10, 28325), (12, 28292), (13, 28253), (16, 28196),

Gene: Rideau\_54 Start: 28490, Stop: 28284, Start Num: 3

Candidate Starts for Rideau\_54:

(1, 28553), (2, 28520), (Start: 3 @28490 has 19 MA's), (7, 28466), (10, 28433), (12, 28400), (13, 28361), (15, 28328), (16, 28304),

Gene: Romero\_51 Start: 28548, Stop: 28342, Start Num: 3

Candidate Starts for Romero\_51:

(Start: 3 @28548 has 19 MA's), (Start: 6 @28527 has 1 MA's), (7, 28524), (9, 28503), (10, 28491), (12, 28458), (13, 28419), (15, 28386),

Gene: RosePharie\_51 Start: 28796, Stop: 28590, Start Num: 4

Candidate Starts for RosePharie\_51:

(2, 28829), (Start: 4 @28796 has 1 MA's), (5, 28790), (Start: 6 @28775 has 1 MA's), (8, 28766), (12, 28706), (13, 28667), (14, 28652),

Gene: Stella\_55 Start: 29298, Stop: 29059, Start Num: 3

Candidate Starts for Stella\_55:

(Start: 3 @29298 has 19 MA's), (Start: 6 @29277 has 1 MA's), (7, 29274), (10, 29241), (11, 29229), (12, 29208), (13, 29169), (14, 29154), (15, 29136), (16, 29112),

Gene: ToriToki\_51 Start: 28551, Stop: 28345, Start Num: 3

Candidate Starts for ToriToki\_51:

(Start: 3 @28551 has 19 MA's), (Start: 6 @28530 has 1 MA's), (7, 28527), (9, 28506), (10, 28494), (12, 28461), (13, 28422), (15, 28389),

Gene: Treat\_51 Start: 28492, Stop: 28286, Start Num: 3

Candidate Starts for Treat\_51:

(Start: 3 @28492 has 19 MA's), (Start: 6 @28471 has 1 MA's), (7, 28468), (9, 28447), (10, 28435), (12, 28402), (13, 28363), (15, 28330),

Gene: Vorvolakos\_52 Start: 28381, Stop: 28175, Start Num: 3

Candidate Starts for Vorvolakos\_52:

(Start: 3 @28381 has 19 MA's), (Start: 6 @28360 has 1 MA's), (7, 28357), (10, 28324), (12, 28291), (13, 28252), (16, 28195),

Gene: WRightOn\_54 Start: 28755, Stop: 28516, Start Num: 3

Candidate Starts for WRightOn\_54:

(Start: 3 @28755 has 19 MA's), (Start: 6 @28734 has 1 MA's), (10, 28698), (11, 28686), (12, 28665), (13, 28626), (16, 28569), (17, 28536),

Gene: Zeigle\_51 Start: 28599, Stop: 28360, Start Num: 3

Candidate Starts for Zeigle\_51:

(Start: 3 @28599 has 19 MA's), (Start: 6 @28578 has 1 MA's), (10, 28542), (11, 28530), (12, 28509), (13, 28470), (16, 28413), (17, 28380),

Gene: ZooBear\_51 Start: 28555, Stop: 28349, Start Num: 3

Candidate Starts for ZooBear\_51:

(Start: 3 @28555 has 19 MA's), (Start: 6 @28534 has 1 MA's), (7, 28531), (9, 28510), (10, 28498), (12, 28465), (13, 28426), (15, 28393),