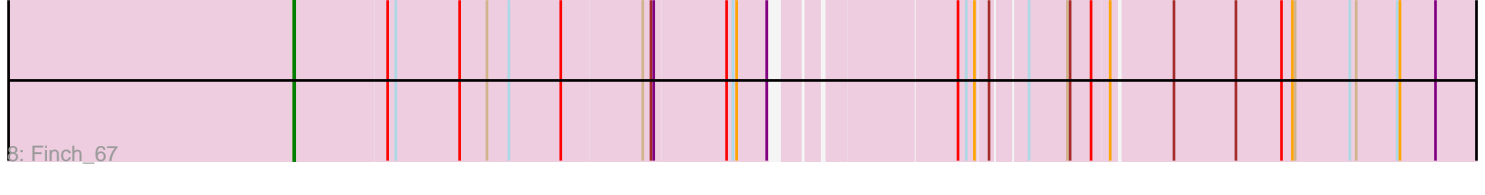
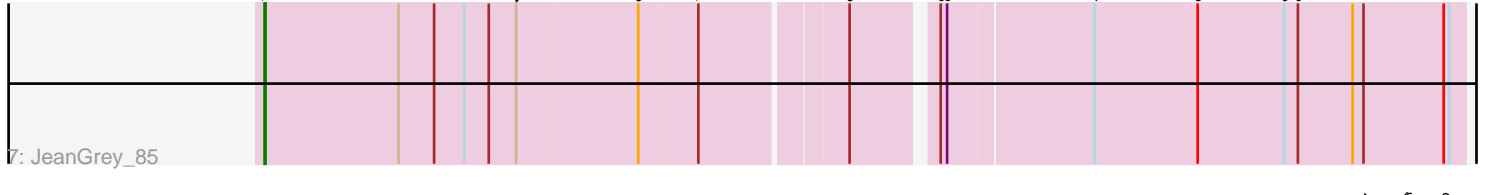
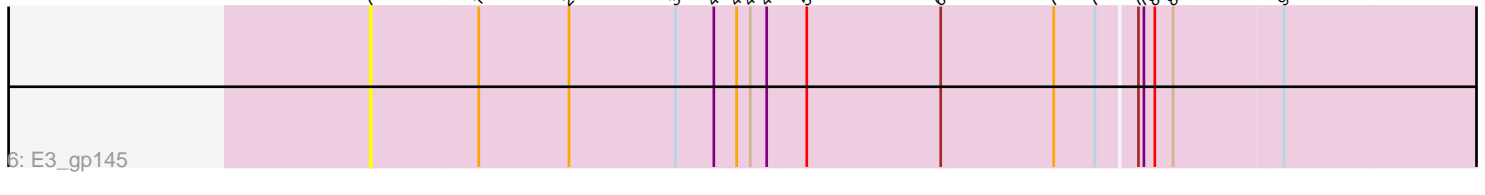
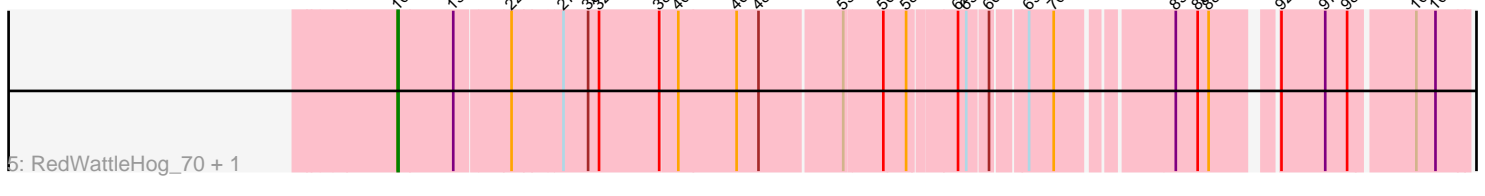
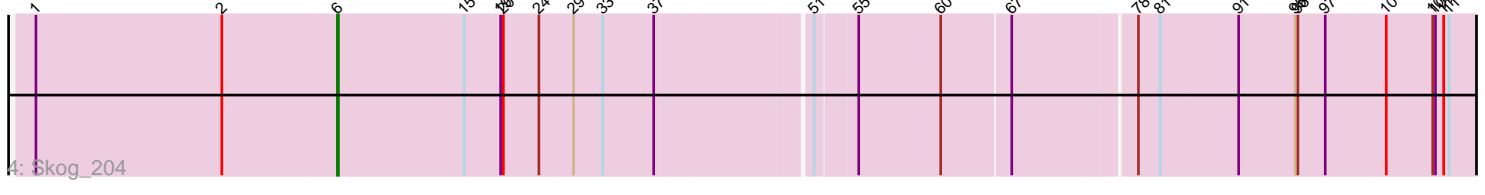
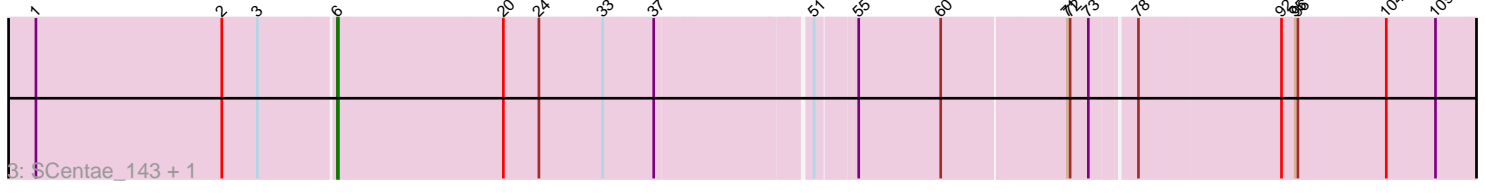
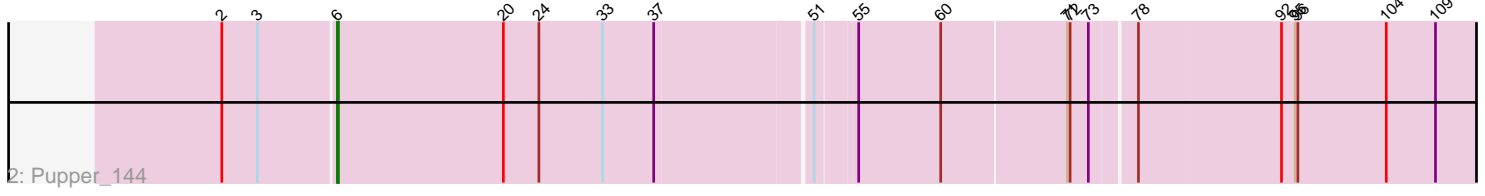
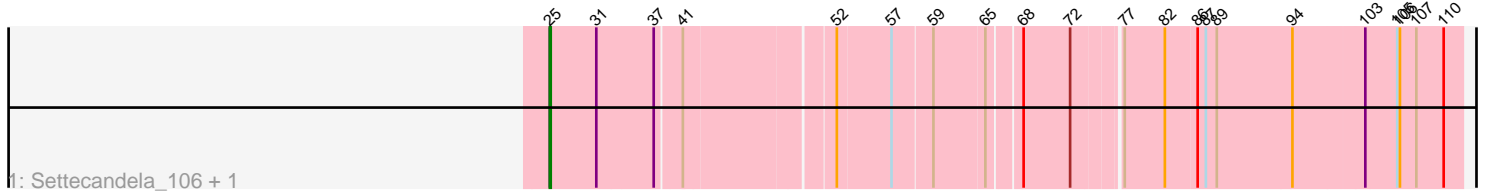


# Pham 297159



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 297159 Report

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

Pham number 297159 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Settecandela\_106, Phrappuccino\_106
- Track 2 : Pupper\_144
- Track 3 : SCentae\_143, CherryTomatoes\_145
- Track 4 : Skog\_204
- Track 5 : RedWattleHog\_70, Stormageddon\_67
- Track 6 : E3\_gp145
- Track 7 : JeanGrey\_85
- Track 8 : Finch\_67

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

The start number called the most often in the published annotations is 6, it was called in 4 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CherryTomatoes\_145, Pupper\_144, SCentae\_143, Skog\_204,

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

- 

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

- E3\_gp145, Finch\_67, JeanGrey\_85, Phrappuccino\_106, RedWattleHog\_70, Settecandela\_106, Stormageddon\_67,

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

Start 4:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: JeanGrey\_85 (singleton),

Start 5:

- Found in 1 of 11 ( 9.1% ) of genes in pham

- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finch\_67 (singleton),

Start 6:

- Found in 4 of 11 ( 36.4% ) of genes in pham
- Manual Annotations of this start: 4 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CherryTomatoes\_145 (DO), Pupper\_144 (DO), SCentae\_143 (DO), Skog\_204 (DO),

Start 7:

- Found in 1 of 11 ( 9.1% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: E3\_gp145 (singleton),

Start 10:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RedWattleHog\_70 (DX), Stormageddon\_67 (DX),

Start 25:

- Found in 2 of 11 ( 18.2% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phrappuccino\_106 (AA), Settecandela\_106 (AA),

### **Summary by clusters:**

There are 4 clusters represented in this pham: AA, DO, singleton, DX,

Info for manual annotations of cluster AA:

- Start number 25 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster DO:

- Start number 6 was manually annotated 4 times for cluster DO.

Info for manual annotations of cluster DX:

- Start number 10 was manually annotated 2 times for cluster DX.

### **Gene Information:**

Gene: CherryTomatoes\_145 Start: 99224, Stop: 100399, Start Num: 6

Candidate Starts for CherryTomatoes\_145:

(1, 98900), (2, 99104), (3, 99143), (Start: 6 @99224 has 4 MA's), (20, 99404), (24, 99443), (33, 99509), (37, 99563), (51, 99719), (55, 99758), (60, 99848), (71, 99980), (72, 99983), (73, 100001), (78, 100043), (92, 100193), (95, 100208), (96, 100211), (104, 100301), (109, 100355),

Gene: E3\_gp145 Start: 95839, Stop: 97035, Start Num: 7

Candidate Starts for E3\_gp145:

(7, 95839), (16, 95956), (28, 96055), (39, 96172), (43, 96214), (46, 96238), (47, 96253), (49, 96271), (50, 96313), (60, 96460), (70, 96583), (75, 96628), (78, 96664), (79, 96670), (80, 96682), (83, 96700), (93, 96814),

Gene: Finch\_67 Start: 57570, Stop: 58805, Start Num: 5

Candidate Starts for Finch\_67:

(Start: 5 @57570 has 1 MA's), (8, 57666), (9, 57675), (14, 57744), (17, 57771), (21, 57795), (26, 57849), (35, 57936), (36, 57945), (37, 57948), (44, 58020), (45, 58026), (46, 58029), (49, 58062), (62, 58227), (63, 58236), (64, 58245), (66, 58254), (69, 58287), (71, 58329), (72, 58332), (74, 58353), (76, 58371), (84, 58434), (90, 58500), (92, 58548), (94, 58560), (95, 58563), (99, 58623), (101, 58629), (105, 58674), (106, 58677), (109, 58716),

Gene: JeanGrey\_85 Start: 67624, Stop: 68880, Start Num: 4

Candidate Starts for JeanGrey\_85:

(Start: 4 @67624 has 1 MA's), (11, 67771), (12, 67810), (15, 67843), (18, 67870), (23, 67900), (34, 68029), (42, 68092), (54, 68242), (60, 68323), (61, 68329), (75, 68482), (86, 68590), (93, 68683), (96, 68698), (100, 68758), (102, 68770), (110, 68857), (111, 68863),

Gene: Phrappuccino\_106 Start: 78400, Stop: 79317, Start Num: 25

Candidate Starts for Phrappuccino\_106:

(Start: 25 @78400 has 2 MA's), (31, 78451), (37, 78511), (41, 78535), (52, 78685), (57, 78742), (59, 78784), (65, 78838), (68, 78868), (72, 78919), (77, 78961), (82, 79003), (86, 79036), (87, 79045), (89, 79057), (94, 79138), (103, 79213), (105, 79246), (106, 79249), (107, 79267), (110, 79297),

Gene: Pupper\_144 Start: 99464, Stop: 100639, Start Num: 6

Candidate Starts for Pupper\_144:

(2, 99344), (3, 99383), (Start: 6 @99464 has 4 MA's), (20, 99644), (24, 99683), (33, 99749), (37, 99803), (51, 99959), (55, 99998), (60, 100088), (71, 100220), (72, 100223), (73, 100241), (78, 100283), (92, 100433), (95, 100448), (96, 100451), (104, 100541), (109, 100595),

Gene: RedWattleHog\_70 Start: 64415, Stop: 65479, Start Num: 10

Candidate Starts for RedWattleHog\_70:

(Start: 10 @64415 has 2 MA's), (13, 64475), (22, 64532), (27, 64583), (30, 64610), (32, 64622), (38, 64688), (40, 64706), (46, 64769), (48, 64793), (53, 64880), (56, 64919), (58, 64943), (62, 64991), (63, 65000), (66, 65021), (69, 65054), (70, 65081), (85, 65192), (86, 65216), (88, 65228), (92, 65285), (97, 65333), (98, 65357), (107, 65423), (109, 65444),

Gene: SCentae\_143 Start: 99615, Stop: 100790, Start Num: 6

Candidate Starts for SCentae\_143:

(1, 99291), (2, 99495), (3, 99534), (Start: 6 @99615 has 4 MA's), (20, 99795), (24, 99834), (33, 99900), (37, 99954), (51, 100110), (55, 100149), (60, 100239), (71, 100371), (72, 100374), (73, 100392), (78, 100434), (92, 100584), (95, 100599), (96, 100602), (104, 100692), (109, 100746),

Gene: Settecandela\_106 Start: 78400, Stop: 79317, Start Num: 25

Candidate Starts for Settecandela\_106:

(Start: 25 @78400 has 2 MA's), (31, 78451), (37, 78511), (41, 78535), (52, 78685), (57, 78742), (59, 78784), (65, 78838), (68, 78868), (72, 78919), (77, 78961), (82, 79003), (86, 79036), (87, 79045), (89, 79057), (94, 79138), (103, 79213), (105, 79246), (106, 79249), (107, 79267), (110, 79297),

Gene: Skog\_204 Start: 128821, Stop: 130023, Start Num: 6

Candidate Starts for Skog\_204:

(1, 128491), (2, 128695), (Start: 6 @128821 has 4 MA's), (15, 128959), (19, 128998), (20, 129001), (24, 129040), (29, 129076), (33, 129106), (37, 129160), (51, 129316), (55, 129355), (60, 129445), (67, 129517), (78, 129640), (81, 129664), (91, 129745), (95, 129805), (96, 129808), (97, 129838), (104, 129898), (108, 129949), (109, 129952), (110, 129961), (111, 129967),

Gene: Stormageddon\_67 Start: 64396, Stop: 65460, Start Num: 10

Candidate Starts for Stormageddon\_67:

(Start: 10 @64396 has 2 MA's), (13, 64456), (22, 64513), (27, 64564), (30, 64591), (32, 64603), (38, 64669), (40, 64687), (46, 64750), (48, 64774), (53, 64861), (56, 64900), (58, 64924), (62, 64972), (63, 64981), (66, 65002), (69, 65035), (70, 65062), (85, 65173), (86, 65197), (88, 65209), (92, 65266), (97, 65314), (98, 65338), (107, 65404), (109, 65425),