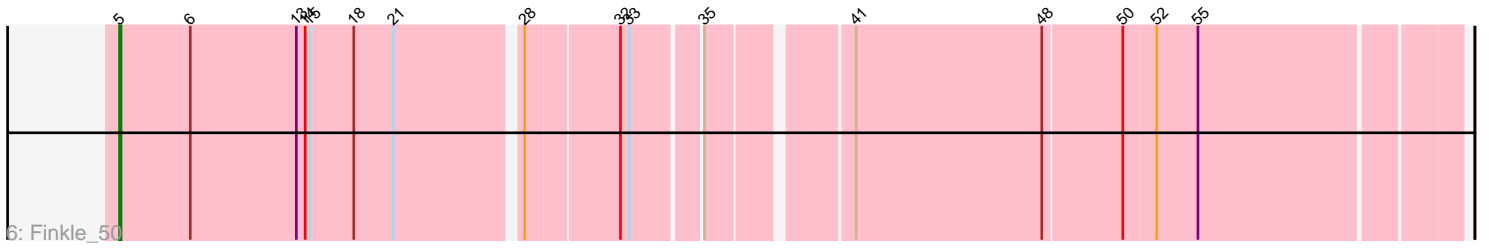
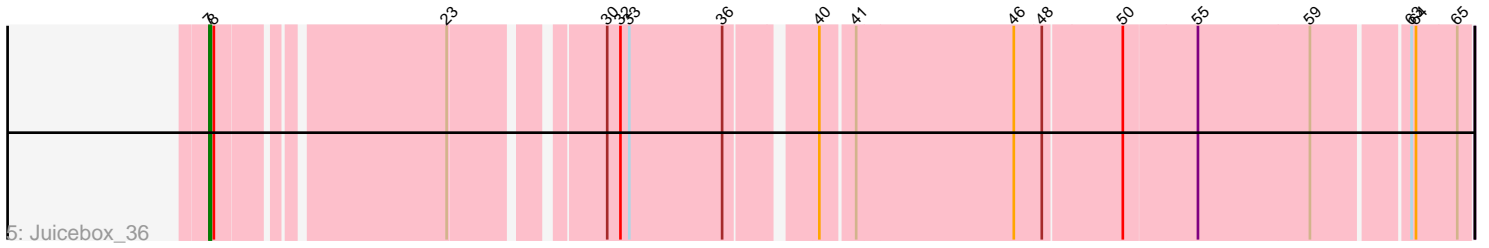
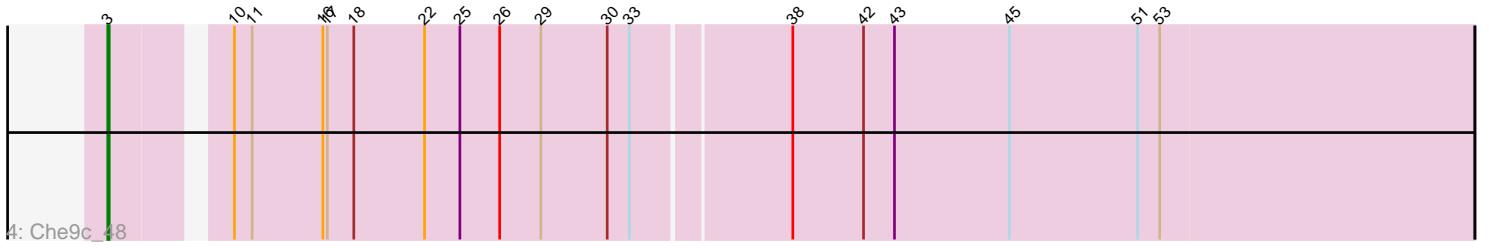
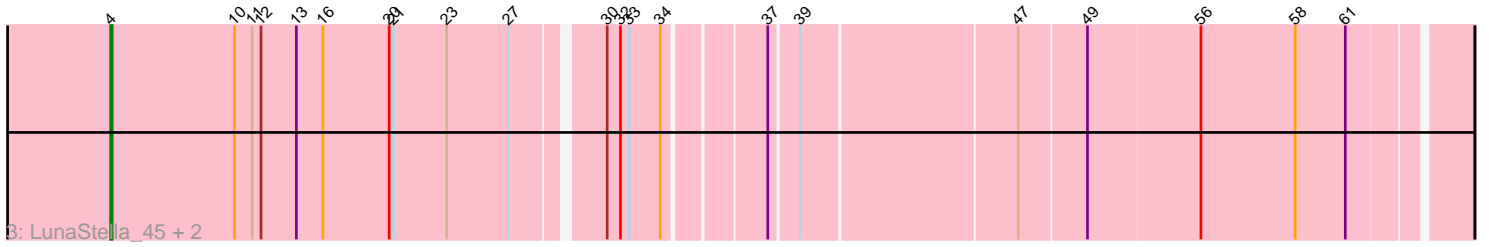
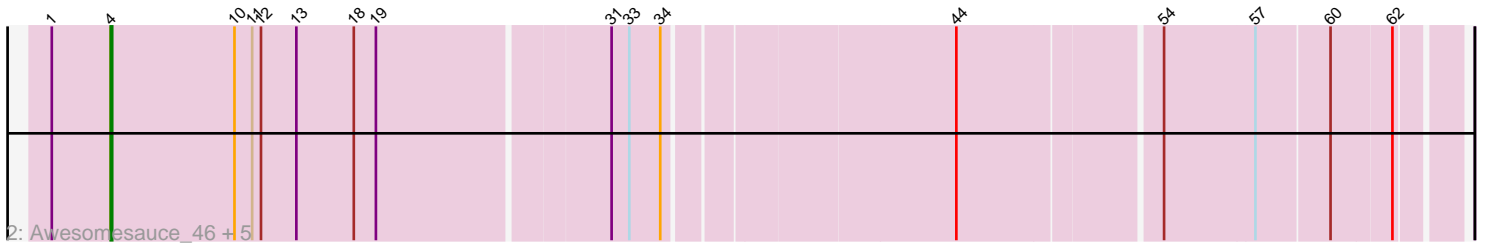
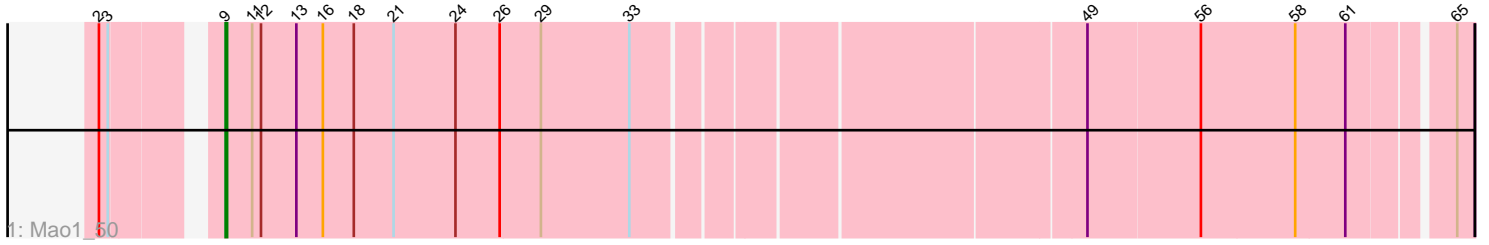


# Pham 190227



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 190227 Report

This analysis was run 11/02/24 on database version 579.

Pham number 190227 has 13 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Mao1\_50
- Track 2 : Awesomesauce\_46, ChickenDinner\_47, Misha28\_44, Piper2020\_46, DocMcStuffins\_45, TootsiePop\_44
- Track 3 : LunaStella\_45, MooMoo\_44, TChen\_47
- Track 4 : Che9c\_48
- Track 5 : Juicebox\_36
- Track 6 : Finkle\_50

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Awesomesauce\_46, ChickenDinner\_47, DocMcStuffins\_45, LunaStella\_45, Misha28\_44, MooMoo\_44, Piper2020\_46, TChen\_47, TootsiePop\_44,

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

- 

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

- Che9c\_48, Finkle\_50, Juicebox\_36, Mao1\_50,

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

Start 3:

- Found in 2 of 13 ( 15.4% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Che9c\_48 (12),

Start 4:

- Found in 9 of 13 ( 69.2% ) of genes in pham
- Manual Annotations of this start: 8 of 12

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Awesomesauce\_46 (F1), ChickenDinner\_47 (F1), DocMcStuffins\_45 (F1), LunaStella\_45 (F4), Misha28\_44 (F1), MooMoo\_44 (singleton), Piper2020\_46 (F1), TChen\_47 (F4), TootsiePop\_44 (F1),

Start 5:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finkle\_50 (singleton),

Start 7:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Juicebox\_36 (singleton),

Start 9:

- Found in 1 of 13 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mao1\_50 (AD),

**Summary by clusters:**

There are 5 clusters represented in this pham: F1, singleton, I2, F4, AD,

Info for manual annotations of cluster AD:

- Start number 9 was manually annotated 1 time for cluster AD.

Info for manual annotations of cluster F1:

- Start number 4 was manually annotated 5 times for cluster F1.

Info for manual annotations of cluster F4:

- Start number 4 was manually annotated 2 times for cluster F4.

Info for manual annotations of cluster I2:

- Start number 3 was manually annotated 1 time for cluster I2.

**Gene Information:**

Gene: Awesomesauce\_46 Start: 33878, Stop: 34738, Start Num: 4

Candidate Starts for Awesomesauce\_46:

(1, 33839), (Start: 4 @33878 has 8 MA's), (10, 33962), (11, 33974), (12, 33980), (13, 34004), (18, 34043), (19, 34058), (31, 34208), (33, 34220), (34, 34241), (44, 34424), (54, 34553), (57, 34613), (60, 34661), (62, 34700),

Gene: Che9c\_48 Start: 38675, Stop: 39562, Start Num: 3

Candidate Starts for Che9c\_48:

(Start: 3 @38675 has 1 MA's), (10, 38738), (11, 38750), (16, 38798), (17, 38801), (18, 38819), (22, 38867), (25, 38891), (26, 38918), (29, 38945), (30, 38990), (33, 39005), (38, 39107), (42, 39155), (43, 39176), (45, 39254), (51, 39341), (53, 39356),

Gene: ChickenDinner\_47 Start: 34616, Stop: 35476, Start Num: 4

Candidate Starts for ChickenDinner\_47:

(1, 34577), (Start: 4 @34616 has 8 MA's), (10, 34700), (11, 34712), (12, 34718), (13, 34742), (18, 34781), (19, 34796), (31, 34946), (33, 34958), (34, 34979), (44, 35162), (54, 35291), (57, 35351), (60, 35399), (62, 35438),

Gene: DocMcStuffins\_45 Start: 34616, Stop: 35476, Start Num: 4

Candidate Starts for DocMcStuffins\_45:

(1, 34577), (Start: 4 @34616 has 8 MA's), (10, 34700), (11, 34712), (12, 34718), (13, 34742), (18, 34781), (19, 34796), (31, 34946), (33, 34958), (34, 34979), (44, 35162), (54, 35291), (57, 35351), (60, 35399), (62, 35438),

Gene: Finkle\_50 Start: 34311, Stop: 35156, Start Num: 5

Candidate Starts for Finkle\_50:

(Start: 5 @34311 has 1 MA's), (6, 34359), (13, 34431), (14, 34437), (15, 34440), (18, 34470), (21, 34497), (28, 34575), (32, 34635), (33, 34641), (35, 34683), (41, 34767), (48, 34890), (50, 34941), (52, 34962), (55, 34989),

Gene: Juicebox\_36 Start: 30688, Stop: 31461, Start Num: 7

Candidate Starts for Juicebox\_36:

(Start: 7 @30688 has 1 MA's), (8, 30691), (23, 30829), (30, 30916), (32, 30925), (33, 30931), (36, 30994), (40, 31045), (41, 31066), (46, 31171), (48, 31189), (50, 31240), (55, 31288), (59, 31363), (63, 31423), (64, 31426), (65, 31453),

Gene: LunaStella\_45 Start: 34115, Stop: 34981, Start Num: 4

Candidate Starts for LunaStella\_45:

(Start: 4 @34115 has 8 MA's), (10, 34199), (11, 34211), (12, 34217), (13, 34241), (16, 34259), (20, 34304), (21, 34307), (23, 34343), (27, 34385), (30, 34439), (32, 34448), (33, 34454), (34, 34475), (37, 34535), (39, 34553), (47, 34694), (49, 34736), (56, 34811), (58, 34874), (61, 34907),

Gene: Mao1\_50 Start: 43092, Stop: 43892, Start Num: 9

Candidate Starts for Mao1\_50:

(2, 43029), (Start: 3 @43035 has 1 MA's), (Start: 9 @43092 has 1 MA's), (11, 43110), (12, 43116), (13, 43140), (16, 43158), (18, 43179), (21, 43206), (24, 43248), (26, 43278), (29, 43305), (33, 43365), (49, 43647), (56, 43722), (58, 43785), (61, 43818), (65, 43881),

Gene: Misha28\_44 Start: 33883, Stop: 34743, Start Num: 4

Candidate Starts for Misha28\_44:

(1, 33844), (Start: 4 @33883 has 8 MA's), (10, 33967), (11, 33979), (12, 33985), (13, 34009), (18, 34048), (19, 34063), (31, 34213), (33, 34225), (34, 34246), (44, 34429), (54, 34558), (57, 34618), (60, 34666), (62, 34705),

Gene: MooMoo\_44 Start: 34391, Stop: 35257, Start Num: 4

Candidate Starts for MooMoo\_44:

(Start: 4 @34391 has 8 MA's), (10, 34475), (11, 34487), (12, 34493), (13, 34517), (16, 34535), (20, 34580), (21, 34583), (23, 34619), (27, 34661), (30, 34715), (32, 34724), (33, 34730), (34, 34751), (37, 34811), (39, 34829), (47, 34970), (49, 35012), (56, 35087), (58, 35150), (61, 35183),

Gene: Piper2020\_46 Start: 34599, Stop: 35459, Start Num: 4

Candidate Starts for Piper2020\_46:

(1, 34560), (Start: 4 @34599 has 8 MA's), (10, 34683), (11, 34695), (12, 34701), (13, 34725), (18, 34764), (19, 34779), (31, 34929), (33, 34941), (34, 34962), (44, 35145), (54, 35274), (57, 35334), (60, 35382), (62, 35421),

Gene: TChen\_47 Start: 36066, Stop: 36932, Start Num: 4

Candidate Starts for TChen\_47:

(Start: 4 @36066 has 8 MA's), (10, 36150), (11, 36162), (12, 36168), (13, 36192), (16, 36210), (20, 36255), (21, 36258), (23, 36294), (27, 36336), (30, 36390), (32, 36399), (33, 36405), (34, 36426), (37, 36486), (39, 36504), (47, 36645), (49, 36687), (56, 36762), (58, 36825), (61, 36858),

Gene: TootsiePop\_44 Start: 33883, Stop: 34743, Start Num: 4

Candidate Starts for TootsiePop\_44:

(1, 33844), (Start: 4 @33883 has 8 MA's), (10, 33967), (11, 33979), (12, 33985), (13, 34009), (18, 34048), (19, 34063), (31, 34213), (33, 34225), (34, 34246), (44, 34429), (54, 34558), (57, 34618), (60, 34666), (62, 34705),