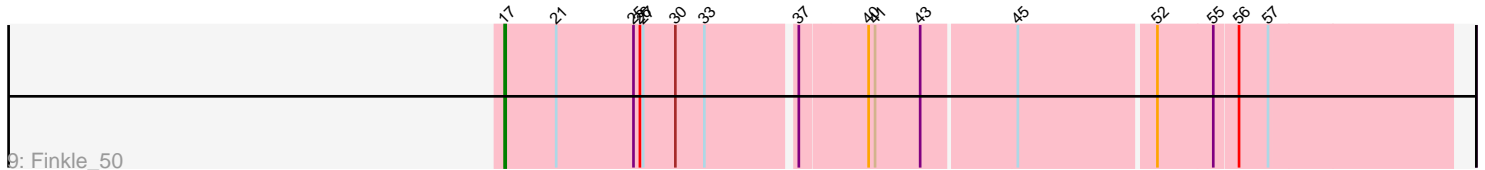
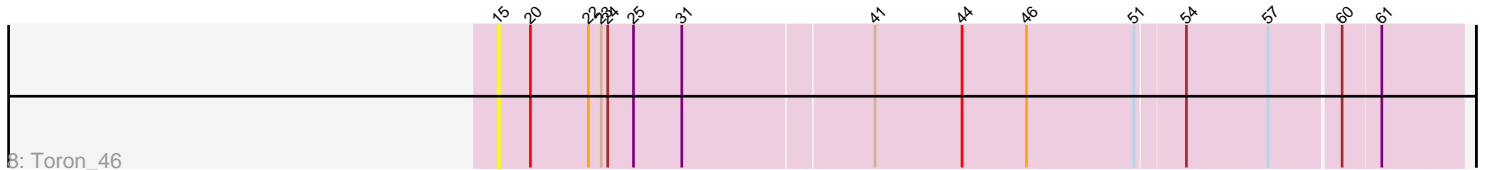
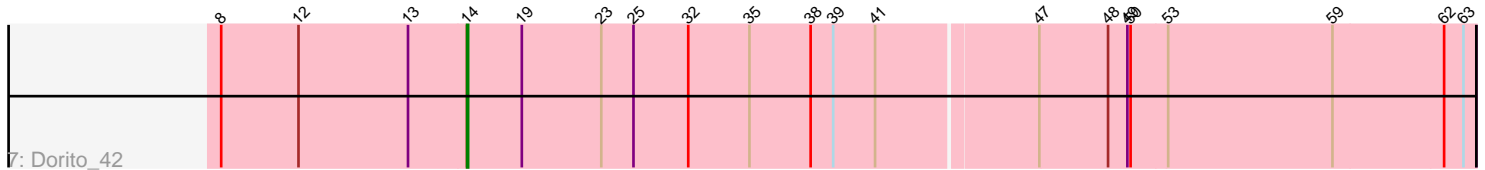
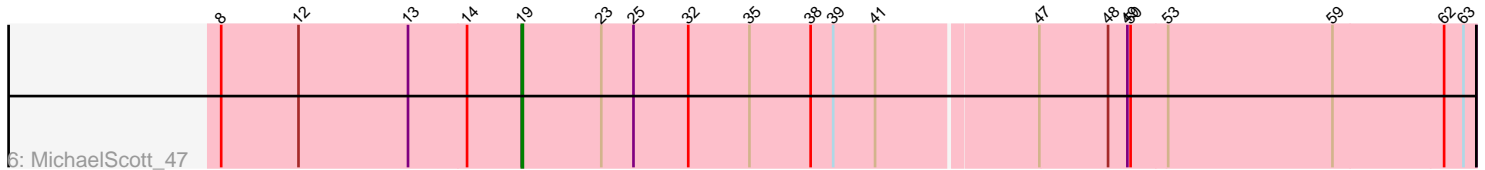
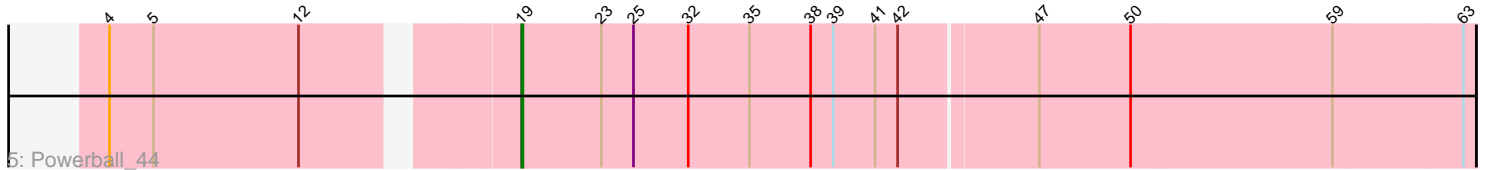
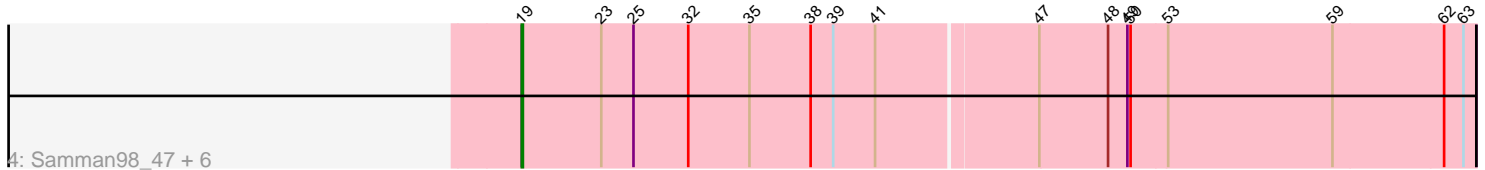
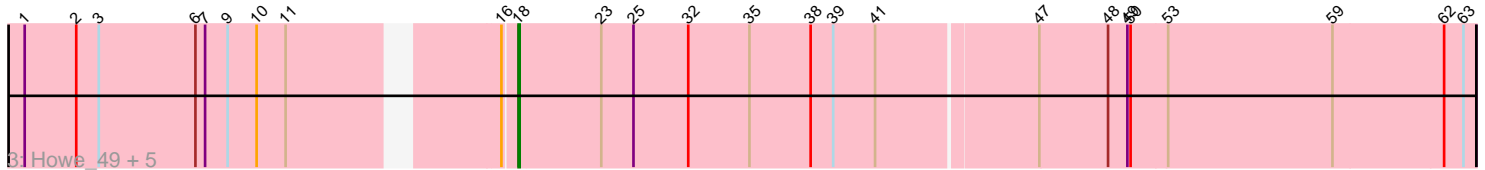
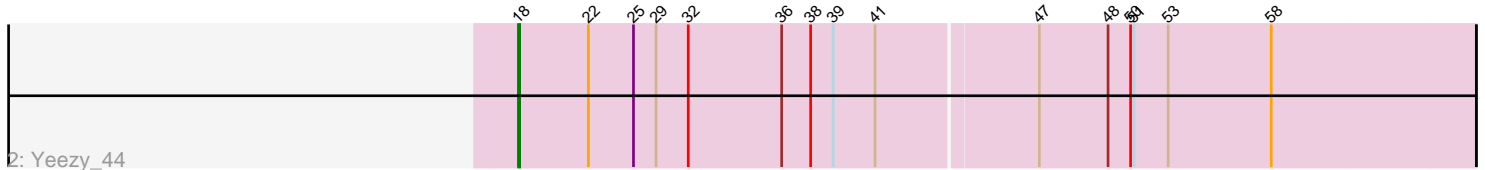
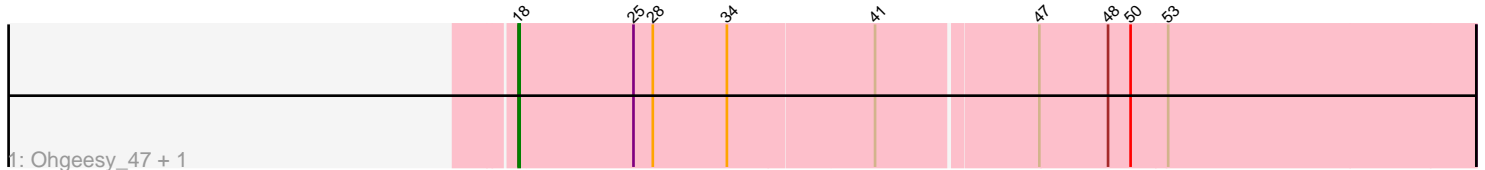


Pham 216575



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 216575 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216575 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Ohgeesy_47, Madeline_44
- Track 2 : Yeezy_44
- Track 3 : Howe_49, Adora_46, Twinkle_48, Shlim410_47, Mcklovin_45, Hortense_49
- Track 4 : Samman98_47, Sekhmet_47, Thimann_44, Clark_46, Beenie_40, Invectra_48, DobbysSock_39
- Track 5 : Powerball_44
- Track 6 : MichaelScott_47
- Track 7 : Dorito_42
- Track 8 : Toron_46
- Track 9 : 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 18, it was called in 9 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Adora_46, Hortense_49, Howe_49, Madeline_44, Mcklovin_45, Ohgeesy_47, Shlim410_47, Twinkle_48, Yeezy_44,

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

-

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

- Beenie_40, Clark_46, DobbysSock_39, Dorito_42, Finkle_50, Invectra_48, MichaelScott_47, Powerball_44, Samman98_47, Sekhmet_47, Thimann_44, Toron_46,

Summary by start number:

Start 14:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 1 of 19

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Dorito_42 (CZ4),

Start 15:

- Found in 1 of 21 (4.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Toron_46 (F6),

Start 17:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finkle_50 (singleton),

Start 18:

- Found in 9 of 21 (42.9%) of genes in pham
- Manual Annotations of this start: 9 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adora_46 (CZ4), Hortense_49 (CZ4), Howe_49 (CZ4), Madeline_44 (CZ1), Mcklovin_45 (CZ4), Ohgeesy_47 (CZ), Shlim410_47 (CZ4), Twinkle_48 (CZ4), Yeezy_44 (CZ3),

Start 19:

- Found in 10 of 21 (47.6%) of genes in pham
- Manual Annotations of this start: 8 of 19
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Beenie_40 (CZ4), Clark_46 (CZ4), DobbysSock_39 (CZ4), Invectra_48 (CZ4), MichaelScott_47 (CZ4), Powerball_44 (CZ4), Samman98_47 (CZ4), Sekhmet_47 (CZ4), Thimann_44 (CZ4),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, F6, CZ3, CZ1, CZ4, CZ,

Info for manual annotations of cluster CZ:

- Start number 18 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 18 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ3:

- Start number 18 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:

- Start number 14 was manually annotated 1 time for cluster CZ4.
- Start number 18 was manually annotated 6 times for cluster CZ4.
- Start number 19 was manually annotated 8 times for cluster CZ4.

Gene Information:

Gene: Adora_46 Start: 36099, Stop: 36974, Start Num: 18

Candidate Starts for Adora_46:

(1, 35676), (2, 35724), (3, 35745), (6, 35835), (7, 35844), (9, 35865), (10, 35892), (11, 35919), (16, 36087), (Start: 18 @36099 has 9 MA's), (23, 36174), (25, 36204), (32, 36255), (35, 36312), (38, 36369), (39, 36390), (41, 36429), (47, 36573), (48, 36636), (49, 36654), (50, 36657), (53, 36690), (59, 36843), (62, 36945), (63, 36963),

Gene: Beenie_40 Start: 33513, Stop: 34385, Start Num: 19

Candidate Starts for Beenie_40:

(Start: 19 @33513 has 8 MA's), (23, 33585), (25, 33615), (32, 33666), (35, 33723), (38, 33780), (39, 33801), (41, 33840), (47, 33984), (48, 34047), (49, 34065), (50, 34068), (53, 34101), (59, 34254), (62, 34356), (63, 34374),

Gene: Clark_46 Start: 33330, Stop: 34202, Start Num: 19

Candidate Starts for Clark_46:

(Start: 19 @33330 has 8 MA's), (23, 33402), (25, 33432), (32, 33483), (35, 33540), (38, 33597), (39, 33618), (41, 33657), (47, 33801), (48, 33864), (49, 33882), (50, 33885), (53, 33918), (59, 34071), (62, 34173), (63, 34191),

Gene: DobbysSock_39 Start: 32172, Stop: 33044, Start Num: 19

Candidate Starts for DobbysSock_39:

(Start: 19 @32172 has 8 MA's), (23, 32244), (25, 32274), (32, 32325), (35, 32382), (38, 32439), (39, 32460), (41, 32499), (47, 32643), (48, 32706), (49, 32724), (50, 32727), (53, 32760), (59, 32913), (62, 33015), (63, 33033),

Gene: Dorito_42 Start: 31766, Stop: 32689, Start Num: 14

Candidate Starts for Dorito_42:

(8, 31538), (12, 31610), (13, 31712), (Start: 14 @31766 has 1 MA's), (Start: 19 @31817 has 8 MA's), (23, 31889), (25, 31919), (32, 31970), (35, 32027), (38, 32084), (39, 32105), (41, 32144), (47, 32288), (48, 32351), (49, 32369), (50, 32372), (53, 32405), (59, 32558), (62, 32660), (63, 32678),

Gene: Finkle_50 Start: 34311, Stop: 35156, Start Num: 17

Candidate Starts for Finkle_50:

(Start: 17 @34311 has 1 MA's), (21, 34359), (25, 34431), (26, 34437), (27, 34440), (30, 34470), (33, 34497), (37, 34575), (40, 34635), (41, 34641), (43, 34683), (45, 34767), (52, 34890), (55, 34941), (56, 34962), (57, 34989),

Gene: Hortense_49 Start: 37454, Stop: 38329, Start Num: 18

Candidate Starts for Hortense_49:

(1, 37031), (2, 37079), (3, 37100), (6, 37190), (7, 37199), (9, 37220), (10, 37247), (11, 37274), (16, 37442), (Start: 18 @37454 has 9 MA's), (23, 37529), (25, 37559), (32, 37610), (35, 37667), (38, 37724), (39, 37745), (41, 37784), (47, 37928), (48, 37991), (49, 38009), (50, 38012), (53, 38045), (59, 38198), (62, 38300), (63, 38318),

Gene: Howe_49 Start: 37454, Stop: 38329, Start Num: 18

Candidate Starts for Howe_49:

(1, 37031), (2, 37079), (3, 37100), (6, 37190), (7, 37199), (9, 37220), (10, 37247), (11, 37274), (16, 37442), (Start: 18 @37454 has 9 MA's), (23, 37529), (25, 37559), (32, 37610), (35, 37667), (38, 37724), (39, 37745), (41, 37784), (47, 37928), (48, 37991), (49, 38009), (50, 38012), (53, 38045), (59, 38198), (62, 38300), (63, 38318),

Gene: Invectra_48 Start: 34904, Stop: 35776, Start Num: 19

Candidate Starts for Invectra_48:

(Start: 19 @34904 has 8 MA's), (23, 34976), (25, 35006), (32, 35057), (35, 35114), (38, 35171), (39, 35192), (41, 35231), (47, 35375), (48, 35438), (49, 35456), (50, 35459), (53, 35492), (59, 35645), (62, 35747), (63, 35765),

Gene: Madeline_44 Start: 35552, Stop: 36421, Start Num: 18

Candidate Starts for Madeline_44:

(Start: 18 @35552 has 9 MA's), (25, 35657), (28, 35675), (34, 35744), (41, 35876), (47, 36020), (48, 36083), (50, 36104), (53, 36137),

Gene: Mcklovin_45 Start: 38921, Stop: 39796, Start Num: 18

Candidate Starts for Mcklovin_45:

(1, 38498), (2, 38546), (3, 38567), (6, 38657), (7, 38666), (9, 38687), (10, 38714), (11, 38741), (16, 38909), (Start: 18 @38921 has 9 MA's), (23, 38996), (25, 39026), (32, 39077), (35, 39134), (38, 39191), (39, 39212), (41, 39251), (47, 39395), (48, 39458), (49, 39476), (50, 39479), (53, 39512), (59, 39665), (62, 39767), (63, 39785),

Gene: MichaelScott_47 Start: 34807, Stop: 35679, Start Num: 19

Candidate Starts for MichaelScott_47:

(8, 34528), (12, 34600), (13, 34702), (Start: 14 @34756 has 1 MA's), (Start: 19 @34807 has 8 MA's), (23, 34879), (25, 34909), (32, 34960), (35, 35017), (38, 35074), (39, 35095), (41, 35134), (47, 35278), (48, 35341), (49, 35359), (50, 35362), (53, 35395), (59, 35548), (62, 35650), (63, 35668),

Gene: Ohgeesy_47 Start: 36347, Stop: 37216, Start Num: 18

Candidate Starts for Ohgeesy_47:

(Start: 18 @36347 has 9 MA's), (25, 36452), (28, 36470), (34, 36539), (41, 36671), (47, 36815), (48, 36878), (50, 36899), (53, 36932),

Gene: Powerball_44 Start: 33674, Stop: 34546, Start Num: 19

Candidate Starts for Powerball_44:

(4, 33329), (5, 33368), (12, 33503), (Start: 19 @33674 has 8 MA's), (23, 33746), (25, 33776), (32, 33827), (35, 33884), (38, 33941), (39, 33962), (41, 34001), (42, 34022), (47, 34145), (50, 34229), (59, 34415), (63, 34535),

Gene: Samman98_47 Start: 33433, Stop: 34305, Start Num: 19

Candidate Starts for Samman98_47:

(Start: 19 @33433 has 8 MA's), (23, 33505), (25, 33535), (32, 33586), (35, 33643), (38, 33700), (39, 33721), (41, 33760), (47, 33904), (48, 33967), (49, 33985), (50, 33988), (53, 34021), (59, 34174), (62, 34276), (63, 34294),

Gene: Sekhmet_47 Start: 34333, Stop: 35205, Start Num: 19

Candidate Starts for Sekhmet_47:

(Start: 19 @34333 has 8 MA's), (23, 34405), (25, 34435), (32, 34486), (35, 34543), (38, 34600), (39, 34621), (41, 34660), (47, 34804), (48, 34867), (49, 34885), (50, 34888), (53, 34921), (59, 35074), (62, 35176), (63, 35194),

Gene: Shlim410_47 Start: 37454, Stop: 38329, Start Num: 18

Candidate Starts for Shlim410_47:

(1, 37031), (2, 37079), (3, 37100), (6, 37190), (7, 37199), (9, 37220), (10, 37247), (11, 37274), (16, 37442), (Start: 18 @37454 has 9 MA's), (23, 37529), (25, 37559), (32, 37610), (35, 37667), (38, 37724), (39, 37745), (41, 37784), (47, 37928), (48, 37991), (49, 38009), (50, 38012), (53, 38045), (59, 38198), (62, 38300), (63, 38318),

Gene: Thimann_44 Start: 32698, Stop: 33570, Start Num: 19

Candidate Starts for Thimann_44:

(Start: 19 @32698 has 8 MA's), (23, 32770), (25, 32800), (32, 32851), (35, 32908), (38, 32965), (39, 32986), (41, 33025), (47, 33169), (48, 33232), (49, 33250), (50, 33253), (53, 33286), (59, 33439), (62, 33541), (63, 33559),

Gene: Toron_46 Start: 35382, Stop: 36251, Start Num: 15

Candidate Starts for Toron_46:

(15, 35382), (20, 35412), (22, 35466), (23, 35478), (24, 35484), (25, 35508), (31, 35553), (41, 35724), (44, 35805), (46, 35865), (51, 35964), (54, 36006), (57, 36081), (60, 36144), (61, 36177),

Gene: Twinkle_48 Start: 38513, Stop: 39388, Start Num: 18

Candidate Starts for Twinkle_48:

(1, 38090), (2, 38138), (3, 38159), (6, 38249), (7, 38258), (9, 38279), (10, 38306), (11, 38333), (16, 38501), (Start: 18 @38513 has 9 MA's), (23, 38588), (25, 38618), (32, 38669), (35, 38726), (38, 38783), (39, 38804), (41, 38843), (47, 38987), (48, 39050), (49, 39068), (50, 39071), (53, 39104), (59, 39257), (62, 39359), (63, 39377),

Gene: Yeezy_44 Start: 33390, Stop: 34265, Start Num: 18

Candidate Starts for Yeezy_44:

(Start: 18 @33390 has 9 MA's), (22, 33453), (25, 33495), (29, 33516), (32, 33546), (36, 33633), (38, 33660), (39, 33681), (41, 33720), (47, 33864), (48, 33927), (50, 33948), (51, 33951), (53, 33981), (58, 34077),