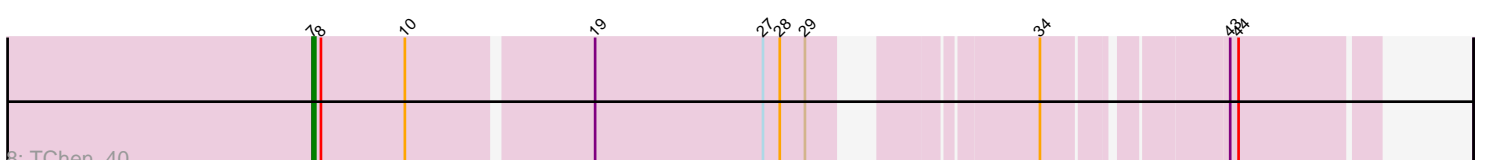
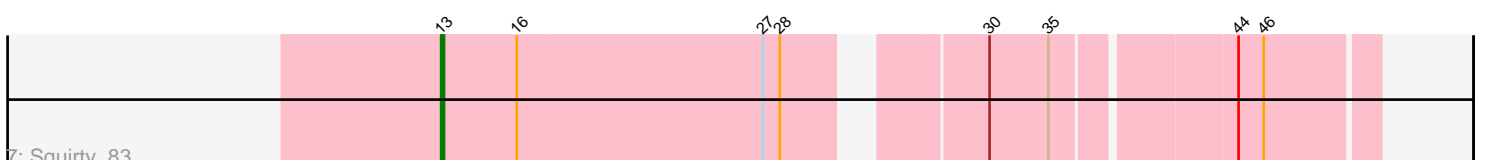
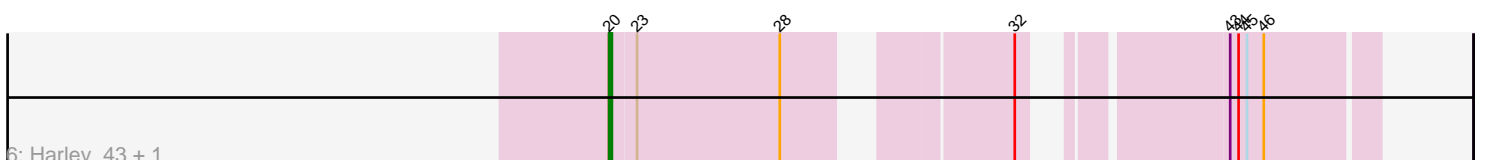
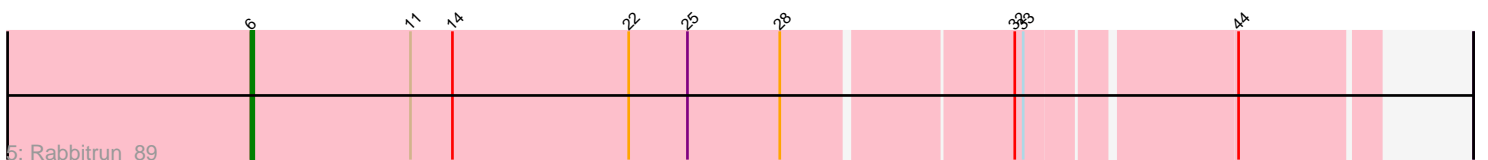
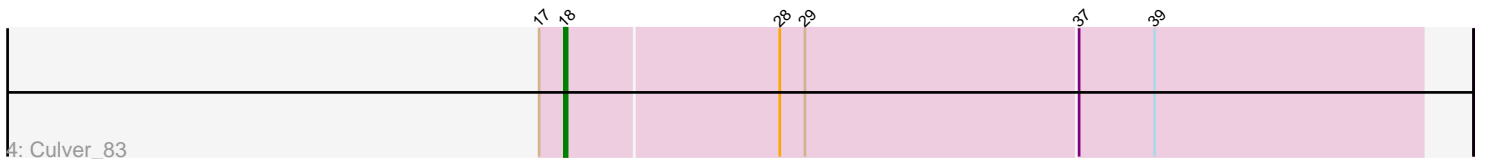
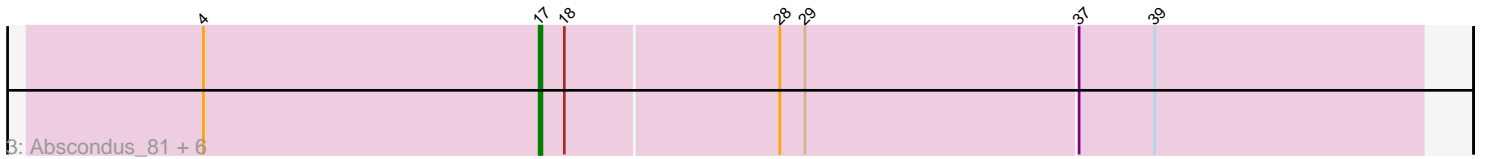
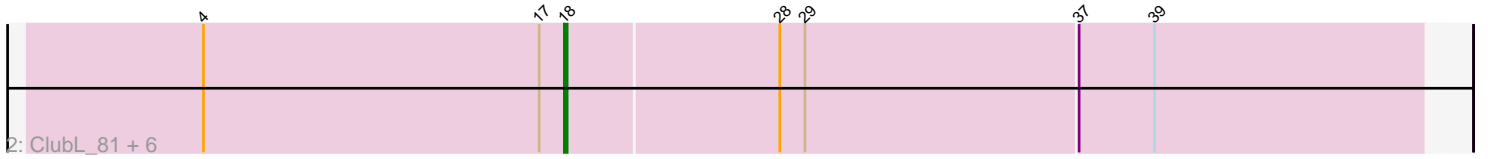
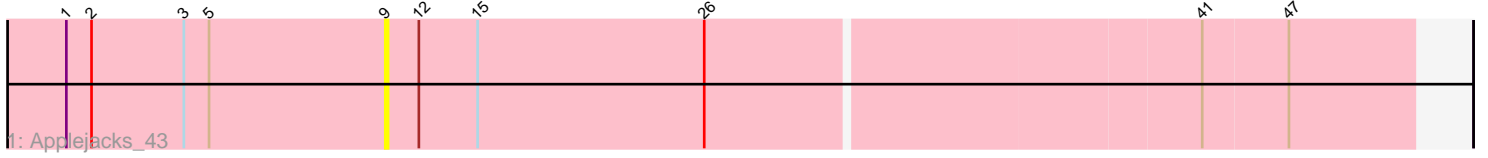


Pham 309167



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 309167 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309167 has 25 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Applejacks_43
- Track 2 : ClubL_81, Bachita_83, Norvs_82, Dusty_79, Smoothie_83, WilliamBoone_81, Engineer_83
- Track 3 : Abscondus_81, Toniann_82, Aphelion_81, Geeche_80, Cucurbita_83, PhinkBoden_81, Lozinak_82
- Track 4 : Culver_83
- Track 5 : Rabbitrun_89
- Track 6 : Harley_43, Ibhubesi_42
- Track 7 : Squirty_83
- Track 8 : TChen_40
- Track 9 : Baudelaire_69, Aegeus_69
- Track 10 : Nebkiss_85, Gaia_86

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 8 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bachita_83, ClubL_81, Culver_83, Dusty_79, Engineer_83, Norvs_82, Smoothie_83, WilliamBoone_81,

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

- Abscondus_81, Aphelion_81, Cucurbita_83, Geeche_80, Lozinak_82, PhinkBoden_81, Toniann_82,

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

- Aegeus_69, Applejacks_43, Baudelaire_69, Gaia_86, Harley_43, Ibhubesi_42, Nebkiss_85, Rabbitrun_89, Squirty_83, TChen_40,

Summary by start number:

Start 6:

- Found in 1 of 25 (4.0%) of genes in pham

- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Rabbitrun_89 (DU2),

Start 7:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TChen_40 (F4),

Start 9:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Applejacks_43 (CD),

Start 13:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Squirty_83 (F3),

Start 17:

- Found in 15 of 25 (60.0%) of genes in pham
- Manual Annotations of this start: 6 of 23
- Called 46.7% of time when present
- Phage (with cluster) where this start called: Abscondus_81 (CQ1), Aphelion_81 (CQ1), Cucurbita_83 (CQ1), Geeche_80 (CQ1), Lozinak_82 (CQ1), PhinkBoden_81 (CQ1), Toniann_82 (CQ1),

Start 18:

- Found in 15 of 25 (60.0%) of genes in pham
- Manual Annotations of this start: 8 of 23
- Called 53.3% of time when present
- Phage (with cluster) where this start called: Bachita_83 (CQ1), ClubL_81 (CQ1), Culver_83 (CQ1), Dusty_79 (CQ1), Engineer_83 (CQ1), Norvs_82 (CQ1), Smoothie_83 (CQ1), WilliamBoone_81 (CQ1),

Start 20:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Harley_43 (F1), Ibhubesi_42 (F1),

Start 21:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_86 (X), Nebkiss_85 (X),

Start 24:

- Found in 2 of 25 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 23

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aegeus_69 (L5), Baudelaire_69 (L5),

Summary by clusters:

There are 8 clusters represented in this pham: F1, F3, F4, CD, L5, X, CQ1, DU2,

Info for manual annotations of cluster CQ1:

- Start number 17 was manually annotated 6 times for cluster CQ1.
- Start number 18 was manually annotated 8 times for cluster CQ1.

Info for manual annotations of cluster DU2:

- Start number 6 was manually annotated 1 time for cluster DU2.

Info for manual annotations of cluster F1:

- Start number 20 was manually annotated 2 times for cluster F1.

Info for manual annotations of cluster F3:

- Start number 13 was manually annotated 1 time for cluster F3.

Info for manual annotations of cluster F4:

- Start number 7 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster L5:

- Start number 24 was manually annotated 2 times for cluster L5.

Info for manual annotations of cluster X:

- Start number 21 was manually annotated 2 times for cluster X.

Gene Information:

Gene: Abscondus_81 Start: 50101, Stop: 50412, Start Num: 17

Candidate Starts for Abscondus_81:

(4, 49981), (Start: 17 @50101 has 6 MA's), (Start: 18 @50110 has 8 MA's), (28, 50185), (29, 50194), (37, 50290), (39, 50317),

Gene: Aegeus_69 Start: 46018, Stop: 46275, Start Num: 24

Candidate Starts for Aegeus_69:

(Start: 24 @46018 has 2 MA's), (36, 46159), (38, 46174), (45, 46225), (46, 46231),

Gene: Aphelion_81 Start: 50723, Stop: 51034, Start Num: 17

Candidate Starts for Aphelion_81:

(4, 50603), (Start: 17 @50723 has 6 MA's), (Start: 18 @50732 has 8 MA's), (28, 50807), (29, 50816), (37, 50912), (39, 50939),

Gene: Applejacks_43 Start: 32690, Stop: 32331, Start Num: 9

Candidate Starts for Applejacks_43:

(1, 32804), (2, 32795), (3, 32762), (5, 32753), (9, 32690), (12, 32678), (15, 32657), (26, 32576), (41, 32405), (47, 32375),

Gene: Bachita_83 Start: 51157, Stop: 51459, Start Num: 18

Candidate Starts for Bachita_83:

(4, 51028), (Start: 17 @51148 has 6 MA's), (Start: 18 @51157 has 8 MA's), (28, 51232), (29, 51241), (37, 51337), (39, 51364),

Gene: Baudelaire_69 Start: 46018, Stop: 46275, Start Num: 24

Candidate Starts for Baudelaire_69:

(Start: 24 @46018 has 2 MA's), (36, 46159), (38, 46174), (45, 46225), (46, 46231),

Gene: ClubL_81 Start: 49845, Stop: 50147, Start Num: 18

Candidate Starts for ClubL_81:

(4, 49716), (Start: 17 @49836 has 6 MA's), (Start: 18 @49845 has 8 MA's), (28, 49920), (29, 49929), (37, 50025), (39, 50052),

Gene: Cucurbita_83 Start: 51655, Stop: 51966, Start Num: 17

Candidate Starts for Cucurbita_83:

(4, 51535), (Start: 17 @51655 has 6 MA's), (Start: 18 @51664 has 8 MA's), (28, 51739), (29, 51748), (37, 51844), (39, 51871),

Gene: Culver_83 Start: 49768, Stop: 50070, Start Num: 18

Candidate Starts for Culver_83:

(Start: 17 @49759 has 6 MA's), (Start: 18 @49768 has 8 MA's), (28, 49843), (29, 49852), (37, 49948), (39, 49975),

Gene: Dusty_79 Start: 49357, Stop: 49659, Start Num: 18

Candidate Starts for Dusty_79:

(4, 49228), (Start: 17 @49348 has 6 MA's), (Start: 18 @49357 has 8 MA's), (28, 49432), (29, 49441), (37, 49537), (39, 49564),

Gene: Engineer_83 Start: 51130, Stop: 51432, Start Num: 18

Candidate Starts for Engineer_83:

(4, 51001), (Start: 17 @51121 has 6 MA's), (Start: 18 @51130 has 8 MA's), (28, 51205), (29, 51214), (37, 51310), (39, 51337),

Gene: Gaia_86 Start: 50640, Stop: 50918, Start Num: 21

Candidate Starts for Gaia_86:

(Start: 21 @50640 has 2 MA's), (28, 50694), (29, 50703), (31, 50757), (40, 50814), (42, 50823), (48, 50880), (49, 50910),

Gene: Geeche_80 Start: 50185, Stop: 50496, Start Num: 17

Candidate Starts for Geeche_80:

(4, 50065), (Start: 17 @50185 has 6 MA's), (Start: 18 @50194 has 8 MA's), (28, 50269), (29, 50278), (37, 50374), (39, 50401),

Gene: Harley_43 Start: 31719, Stop: 31486, Start Num: 20

Candidate Starts for Harley_43:

(Start: 20 @31719 has 2 MA's), (23, 31710), (28, 31659), (32, 31593), (43, 31536), (44, 31533), (45, 31530), (46, 31524),

Gene: Ibhubesi_42 Start: 31726, Stop: 31493, Start Num: 20

Candidate Starts for Ibhubesi_42:

(Start: 20 @31726 has 2 MA's), (23, 31717), (28, 31666), (32, 31600), (43, 31543), (44, 31540), (45, 31537), (46, 31531),

Gene: Lozinak_82 Start: 50959, Stop: 51270, Start Num: 17

Candidate Starts for Lozinak_82:

(4, 50839), (Start: 17 @50959 has 6 MA's), (Start: 18 @50968 has 8 MA's), (28, 51043), (29, 51052), (37, 51148), (39, 51175),

Gene: Nebkiss_85 Start: 49252, Stop: 49530, Start Num: 21

Candidate Starts for Nebkiss_85:

(Start: 21 @49252 has 2 MA's), (28, 49306), (29, 49315), (31, 49369), (40, 49426), (42, 49435), (48, 49492), (49, 49522),

Gene: Norvs_82 Start: 50377, Stop: 50679, Start Num: 18

Candidate Starts for Norvs_82:

(4, 50248), (Start: 17 @50368 has 6 MA's), (Start: 18 @50377 has 8 MA's), (28, 50452), (29, 50461), (37, 50557), (39, 50584),

Gene: PhinkBoden_81 Start: 50749, Stop: 51060, Start Num: 17

Candidate Starts for PhinkBoden_81:

(4, 50629), (Start: 17 @50749 has 6 MA's), (Start: 18 @50758 has 8 MA's), (28, 50833), (29, 50842), (37, 50938), (39, 50965),

Gene: Rabbitrun_89 Start: 55175, Stop: 55561, Start Num: 6

Candidate Starts for Rabbitrun_89:

(Start: 6 @55175 has 1 MA's), (11, 55232), (14, 55247), (22, 55310), (25, 55331), (28, 55364), (32, 55442), (33, 55445), (44, 55514),

Gene: Smoothie_83 Start: 50968, Stop: 51270, Start Num: 18

Candidate Starts for Smoothie_83:

(4, 50839), (Start: 17 @50959 has 6 MA's), (Start: 18 @50968 has 8 MA's), (28, 51043), (29, 51052), (37, 51148), (39, 51175),

Gene: Squirty_83 Start: 53283, Stop: 53588, Start Num: 13

Candidate Starts for Squirty_83:

(Start: 13 @53283 has 1 MA's), (16, 53310), (27, 53397), (28, 53403), (30, 53460), (35, 53481), (44, 53541), (46, 53550),

Gene: TChen_40 Start: 32216, Stop: 31875, Start Num: 7

Candidate Starts for TChen_40:

(Start: 7 @32216 has 1 MA's), (8, 32213), (10, 32183), (19, 32120), (27, 32060), (28, 32054), (29, 32045), (34, 31982), (43, 31925), (44, 31922),

Gene: Toniann_82 Start: 50311, Stop: 50622, Start Num: 17

Candidate Starts for Toniann_82:

(4, 50191), (Start: 17 @50311 has 6 MA's), (Start: 18 @50320 has 8 MA's), (28, 50395), (29, 50404), (37, 50500), (39, 50527),

Gene: WilliamBoone_81 Start: 49068, Stop: 49370, Start Num: 18

Candidate Starts for WilliamBoone_81:

(4, 48939), (Start: 17 @49059 has 6 MA's), (Start: 18 @49068 has 8 MA's), (28, 49143), (29, 49152), (37, 49248), (39, 49275),