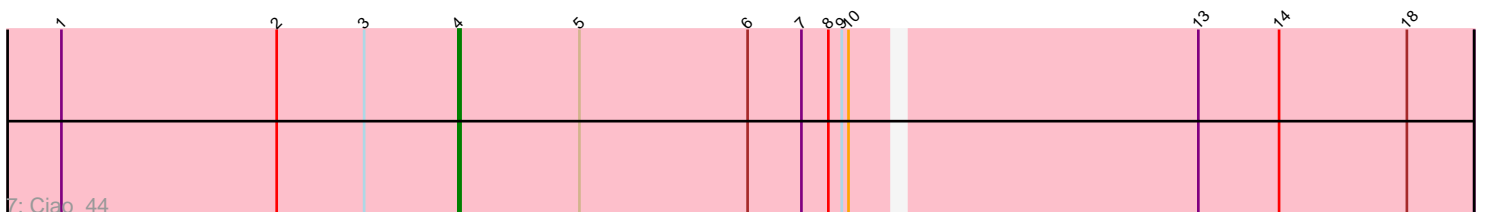
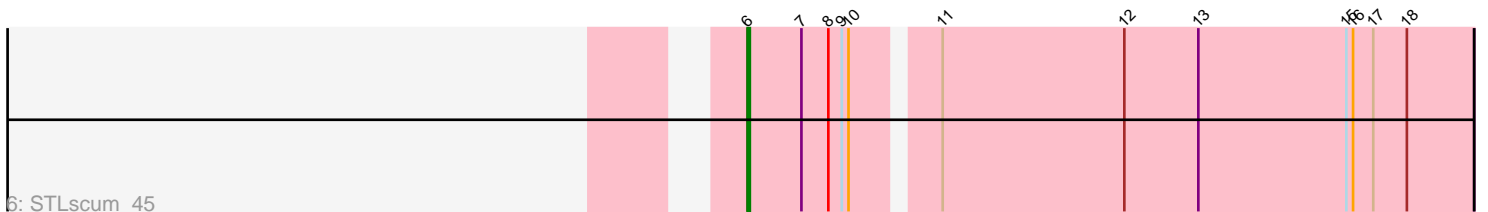
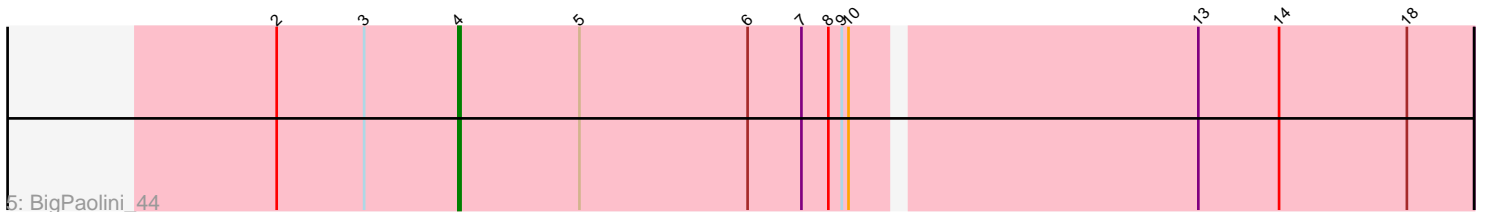
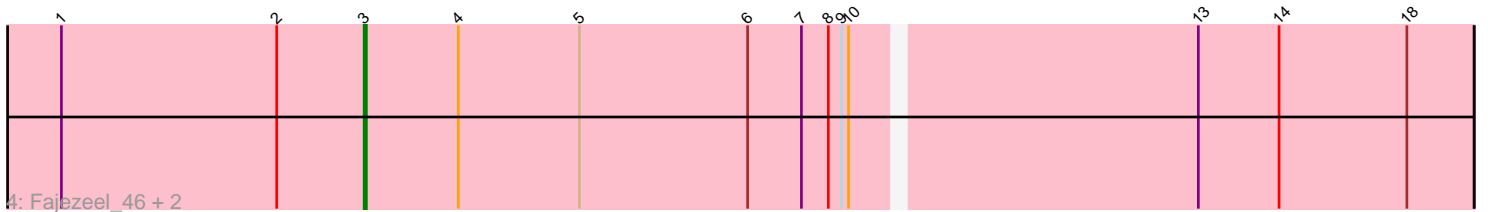
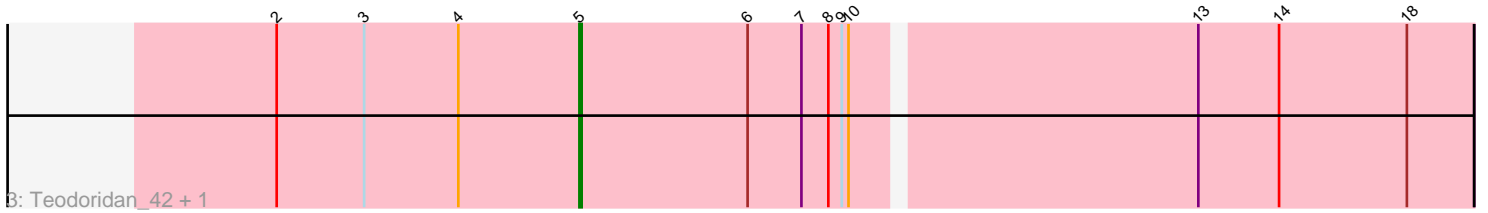
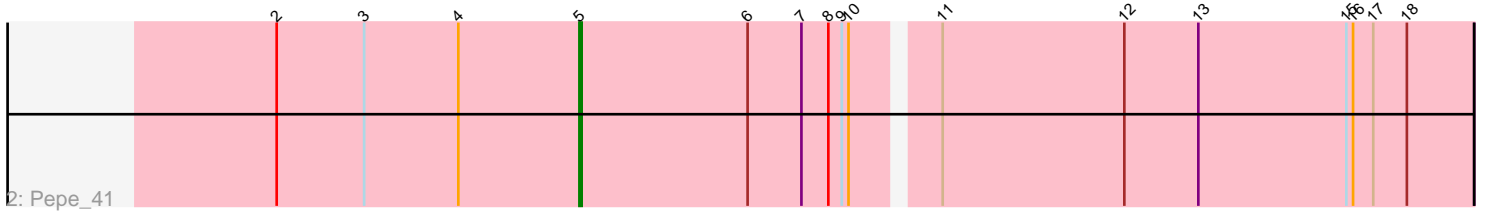
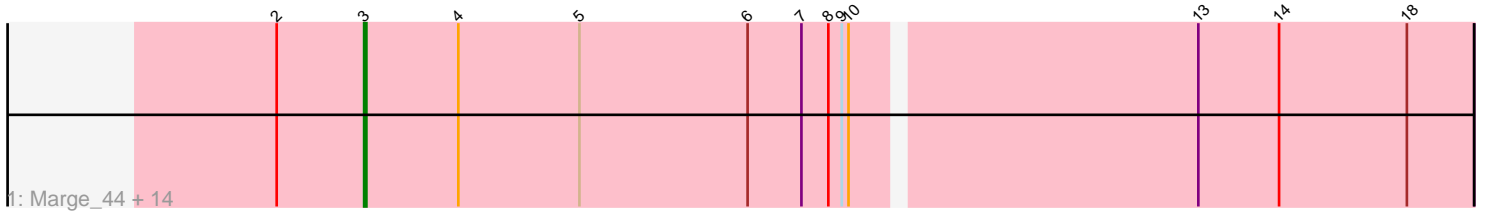


Pham 158149



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 158149 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158149 has 24 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Marge_44, StrongArm_43, Niza_46, Eyeball_45, TheloniousMonk_45, Slagathor_46, Bexan_42, Bones_44, Licorice_47, Ruotula_47, Rajelicia_45, Arcanine_45, Sagefire_47, Dexes_44, Smairt_46
- Track 2 : Pepe_41
- Track 3 : Teodoridan_42, Ringer_45
- Track 4 : Fajezeel_46, Greg_46, Pippin_46
- Track 5 : BigPaolini_44
- Track 6 : STLscum_45
- Track 7 : Ciao_44

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

Genes that call this "Most Annotated" start:

- Arcanine_45, Bexan_42, Bones_44, Dexes_44, Eyeball_45, Fajezeel_46, Greg_46, Licorice_47, Marge_44, Niza_46, Pippin_46, Rajelicia_45, Ruotula_47, Sagefire_47, Slagathor_46, Smairt_46, StrongArm_43, TheloniousMonk_45,

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

- BigPaolini_44, Ciao_44, Pepe_41, Ringer_45, Teodoridan_42,

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

- STLscum_45,

Summary by start number:

Start 3:

- Found in 23 of 24 (95.8%) of genes in pham
- Manual Annotations of this start: 18 of 23
- Called 78.3% of time when present
- Phage (with cluster) where this start called: Arcanine_45 (A1), Bexan_42 (A1), Bones_44 (A1), Dexes_44 (A1), Eyeball_45 (A1), Fajezeel_46 (A1), Greg_46 (A1),

Licorice_47 (A1), Marge_44 (A1), Niza_46 (A1), Pippin_46 (A1), Rajelicia_45 (A1), Ruotula_47 (A1), Sagefire_47 (A1), Slagathor_46 (A1), Smairt_46 (A1), StrongArm_43 (A1), TheloniousMonk_45 (A1),

Start 4:

- Found in 23 of 24 (95.8%) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 8.7% of time when present
- Phage (with cluster) where this start called: BigPaolini_44 (A1), Ciao_44 (A1),

Start 5:

- Found in 23 of 24 (95.8%) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 13.0% of time when present
- Phage (with cluster) where this start called: Pepe_41 (A1), Ringer_45 (A1), Teodoridan_42 (A1),

Start 6:

- Found in 24 of 24 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 4.2% of time when present
- Phage (with cluster) where this start called: STLscum_45 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 3 was manually annotated 18 times for cluster A1.
- Start number 4 was manually annotated 2 times for cluster A1.
- Start number 5 was manually annotated 2 times for cluster A1.
- Start number 6 was manually annotated 1 time for cluster A1.

Gene Information:

Gene: Arcanine_45 Start: 32773, Stop: 32288, Start Num: 3

Candidate Starts for Arcanine_45:

(2, 32812), (Start: 3 @32773 has 18 MA's), (Start: 4 @32731 has 2 MA's), (Start: 5 @32677 has 2 MA's), (Start: 6 @32602 has 1 MA's), (7, 32578), (8, 32566), (9, 32560), (10, 32557), (13, 32410), (14, 32374), (18, 32317),

Gene: Bexan_42 Start: 33854, Stop: 33369, Start Num: 3

Candidate Starts for Bexan_42:

(2, 33893), (Start: 3 @33854 has 18 MA's), (Start: 4 @33812 has 2 MA's), (Start: 5 @33758 has 2 MA's), (Start: 6 @33683 has 1 MA's), (7, 33659), (8, 33647), (9, 33641), (10, 33638), (13, 33491), (14, 33455), (18, 33398),

Gene: BigPaolini_44 Start: 31801, Stop: 31358, Start Num: 4

Candidate Starts for BigPaolini_44:

(2, 31882), (Start: 3 @31843 has 18 MA's), (Start: 4 @31801 has 2 MA's), (Start: 5 @31747 has 2 MA's), (Start: 6 @31672 has 1 MA's), (7, 31648), (8, 31636), (9, 31630), (10, 31627), (13, 31480), (14,

31444), (18, 31387),

Gene: Bones_44 Start: 33339, Stop: 32854, Start Num: 3

Candidate Starts for Bones_44:

(2, 33378), (Start: 3 @33339 has 18 MA's), (Start: 4 @33297 has 2 MA's), (Start: 5 @33243 has 2 MA's), (Start: 6 @33168 has 1 MA's), (7, 33144), (8, 33132), (9, 33126), (10, 33123), (13, 32976), (14, 32940), (18, 32883),

Gene: Ciao_44 Start: 32944, Stop: 32501, Start Num: 4

Candidate Starts for Ciao_44:

(1, 33121), (2, 33025), (Start: 3 @32986 has 18 MA's), (Start: 4 @32944 has 2 MA's), (Start: 5 @32890 has 2 MA's), (Start: 6 @32815 has 1 MA's), (7, 32791), (8, 32779), (9, 32773), (10, 32770), (13, 32623), (14, 32587), (18, 32530),

Gene: Dexes_44 Start: 33602, Stop: 33117, Start Num: 3

Candidate Starts for Dexes_44:

(2, 33641), (Start: 3 @33602 has 18 MA's), (Start: 4 @33560 has 2 MA's), (Start: 5 @33506 has 2 MA's), (Start: 6 @33431 has 1 MA's), (7, 33407), (8, 33395), (9, 33389), (10, 33386), (13, 33239), (14, 33203), (18, 33146),

Gene: Eyeball_45 Start: 33249, Stop: 32764, Start Num: 3

Candidate Starts for Eyeball_45:

(2, 33288), (Start: 3 @33249 has 18 MA's), (Start: 4 @33207 has 2 MA's), (Start: 5 @33153 has 2 MA's), (Start: 6 @33078 has 1 MA's), (7, 33054), (8, 33042), (9, 33036), (10, 33033), (13, 32886), (14, 32850), (18, 32793),

Gene: Fajezeel_46 Start: 33359, Stop: 32874, Start Num: 3

Candidate Starts for Fajezeel_46:

(1, 33494), (2, 33398), (Start: 3 @33359 has 18 MA's), (Start: 4 @33317 has 2 MA's), (Start: 5 @33263 has 2 MA's), (Start: 6 @33188 has 1 MA's), (7, 33164), (8, 33152), (9, 33146), (10, 33143), (13, 32996), (14, 32960), (18, 32903),

Gene: Greg_46 Start: 33359, Stop: 32874, Start Num: 3

Candidate Starts for Greg_46:

(1, 33494), (2, 33398), (Start: 3 @33359 has 18 MA's), (Start: 4 @33317 has 2 MA's), (Start: 5 @33263 has 2 MA's), (Start: 6 @33188 has 1 MA's), (7, 33164), (8, 33152), (9, 33146), (10, 33143), (13, 32996), (14, 32960), (18, 32903),

Gene: Licorice_47 Start: 34445, Stop: 33960, Start Num: 3

Candidate Starts for Licorice_47:

(2, 34484), (Start: 3 @34445 has 18 MA's), (Start: 4 @34403 has 2 MA's), (Start: 5 @34349 has 2 MA's), (Start: 6 @34274 has 1 MA's), (7, 34250), (8, 34238), (9, 34232), (10, 34229), (13, 34082), (14, 34046), (18, 33989),

Gene: Marge_44 Start: 33477, Stop: 32992, Start Num: 3

Candidate Starts for Marge_44:

(2, 33516), (Start: 3 @33477 has 18 MA's), (Start: 4 @33435 has 2 MA's), (Start: 5 @33381 has 2 MA's), (Start: 6 @33306 has 1 MA's), (7, 33282), (8, 33270), (9, 33264), (10, 33261), (13, 33114), (14, 33078), (18, 33021),

Gene: Niza_46 Start: 34104, Stop: 33619, Start Num: 3

Candidate Starts for Niza_46:

(2, 34143), (Start: 3 @34104 has 18 MA's), (Start: 4 @34062 has 2 MA's), (Start: 5 @34008 has 2 MA's), (Start: 6 @33933 has 1 MA's), (7, 33909), (8, 33897), (9, 33891), (10, 33888), (13, 33741), (14, 33705), (18, 33648),

Gene: Pepe_41 Start: 31155, Stop: 30766, Start Num: 5

Candidate Starts for Pepe_41:

(2, 31290), (Start: 3 @31251 has 18 MA's), (Start: 4 @31209 has 2 MA's), (Start: 5 @31155 has 2 MA's), (Start: 6 @31080 has 1 MA's), (7, 31056), (8, 31044), (9, 31038), (10, 31035), (11, 31002), (12, 30921), (13, 30888), (15, 30822), (16, 30819), (17, 30810), (18, 30795),

Gene: Pippin_46 Start: 33403, Stop: 32918, Start Num: 3

Candidate Starts for Pippin_46:

(1, 33538), (2, 33442), (Start: 3 @33403 has 18 MA's), (Start: 4 @33361 has 2 MA's), (Start: 5 @33307 has 2 MA's), (Start: 6 @33232 has 1 MA's), (7, 33208), (8, 33196), (9, 33190), (10, 33187), (13, 33040), (14, 33004), (18, 32947),

Gene: Rajelicia_45 Start: 33435, Stop: 32950, Start Num: 3

Candidate Starts for Rajelicia_45:

(2, 33474), (Start: 3 @33435 has 18 MA's), (Start: 4 @33393 has 2 MA's), (Start: 5 @33339 has 2 MA's), (Start: 6 @33264 has 1 MA's), (7, 33240), (8, 33228), (9, 33222), (10, 33219), (13, 33072), (14, 33036), (18, 32979),

Gene: Ringer_45 Start: 33671, Stop: 33282, Start Num: 5

Candidate Starts for Ringer_45:

(2, 33806), (Start: 3 @33767 has 18 MA's), (Start: 4 @33725 has 2 MA's), (Start: 5 @33671 has 2 MA's), (Start: 6 @33596 has 1 MA's), (7, 33572), (8, 33560), (9, 33554), (10, 33551), (13, 33404), (14, 33368), (18, 33311),

Gene: Ruotula_47 Start: 34572, Stop: 34078, Start Num: 3

Candidate Starts for Ruotula_47:

(2, 34611), (Start: 3 @34572 has 18 MA's), (Start: 4 @34530 has 2 MA's), (Start: 5 @34476 has 2 MA's), (Start: 6 @34401 has 1 MA's), (7, 34377), (8, 34365), (9, 34359), (10, 34356), (13, 34200), (14, 34164), (18, 34107),

Gene: STLscum_45 Start: 33801, Stop: 33487, Start Num: 6

Candidate Starts for STLscum_45:

(Start: 6 @33801 has 1 MA's), (7, 33777), (8, 33765), (9, 33759), (10, 33756), (11, 33723), (12, 33642), (13, 33609), (15, 33543), (16, 33540), (17, 33531), (18, 33516),

Gene: Sagefire_47 Start: 34321, Stop: 33836, Start Num: 3

Candidate Starts for Sagefire_47:

(2, 34360), (Start: 3 @34321 has 18 MA's), (Start: 4 @34279 has 2 MA's), (Start: 5 @34225 has 2 MA's), (Start: 6 @34150 has 1 MA's), (7, 34126), (8, 34114), (9, 34108), (10, 34105), (13, 33958), (14, 33922), (18, 33865),

Gene: Slagathor_46 Start: 33360, Stop: 32875, Start Num: 3

Candidate Starts for Slagathor_46:

(2, 33399), (Start: 3 @33360 has 18 MA's), (Start: 4 @33318 has 2 MA's), (Start: 5 @33264 has 2 MA's), (Start: 6 @33189 has 1 MA's), (7, 33165), (8, 33153), (9, 33147), (10, 33144), (13, 32997), (14, 32961), (18, 32904),

Gene: Smairt_46 Start: 33659, Stop: 33174, Start Num: 3

Candidate Starts for Smairt_46:

(2, 33698), (Start: 3 @33659 has 18 MA's), (Start: 4 @33617 has 2 MA's), (Start: 5 @33563 has 2 MA's), (Start: 6 @33488 has 1 MA's), (7, 33464), (8, 33452), (9, 33446), (10, 33443), (13, 33296), (14, 33260), (18, 33203),

Gene: StrongArm_43 Start: 33982, Stop: 33497, Start Num: 3

Candidate Starts for StrongArm_43:

(2, 34021), (Start: 3 @33982 has 18 MA's), (Start: 4 @33940 has 2 MA's), (Start: 5 @33886 has 2 MA's), (Start: 6 @33811 has 1 MA's), (7, 33787), (8, 33775), (9, 33769), (10, 33766), (13, 33619), (14, 33583), (18, 33526),

Gene: Teodoridan_42 Start: 32338, Stop: 31949, Start Num: 5

Candidate Starts for Teodoridan_42:

(2, 32473), (Start: 3 @32434 has 18 MA's), (Start: 4 @32392 has 2 MA's), (Start: 5 @32338 has 2 MA's), (Start: 6 @32263 has 1 MA's), (7, 32239), (8, 32227), (9, 32221), (10, 32218), (13, 32071), (14, 32035), (18, 31978),

Gene: TheloniousMonk_45 Start: 34368, Stop: 33883, Start Num: 3

Candidate Starts for TheloniousMonk_45:

(2, 34407), (Start: 3 @34368 has 18 MA's), (Start: 4 @34326 has 2 MA's), (Start: 5 @34272 has 2 MA's), (Start: 6 @34197 has 1 MA's), (7, 34173), (8, 34161), (9, 34155), (10, 34152), (13, 34005), (14, 33969), (18, 33912),