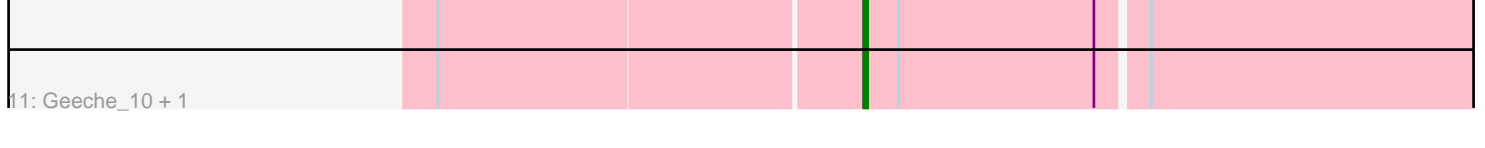
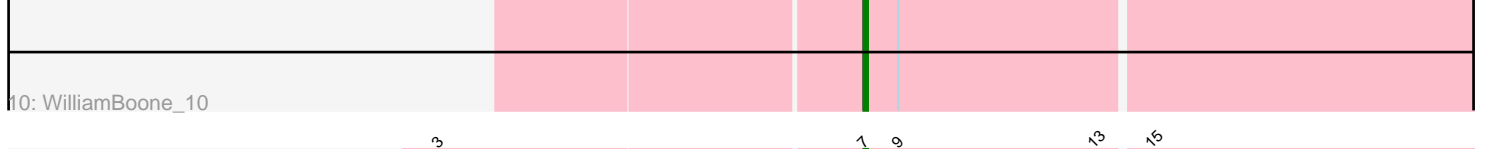
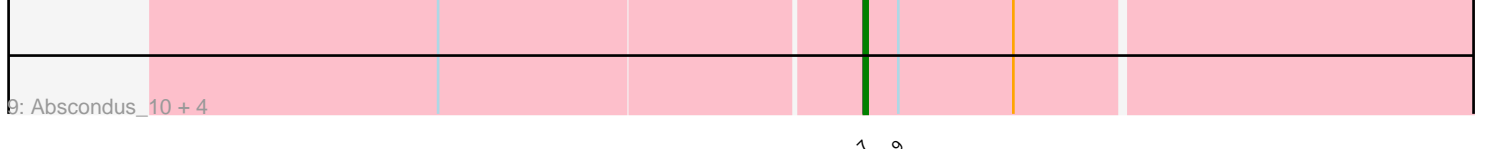
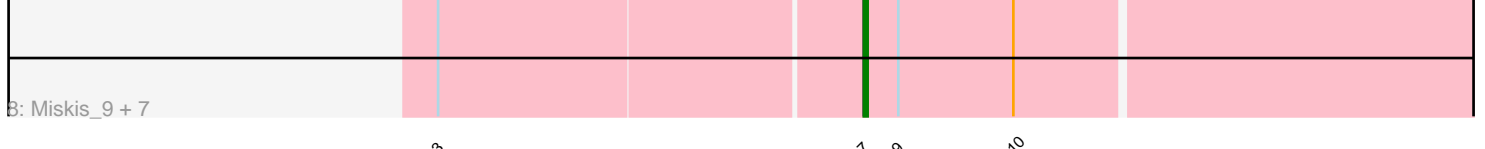
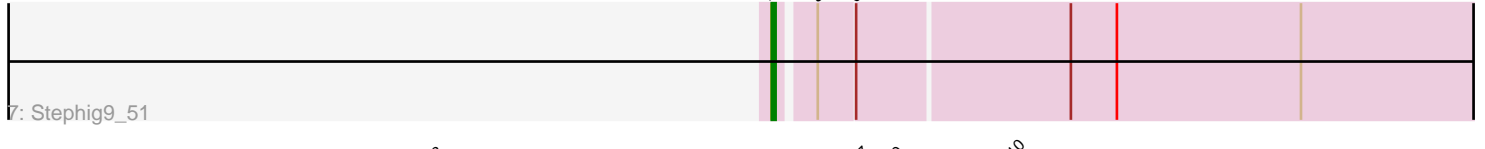
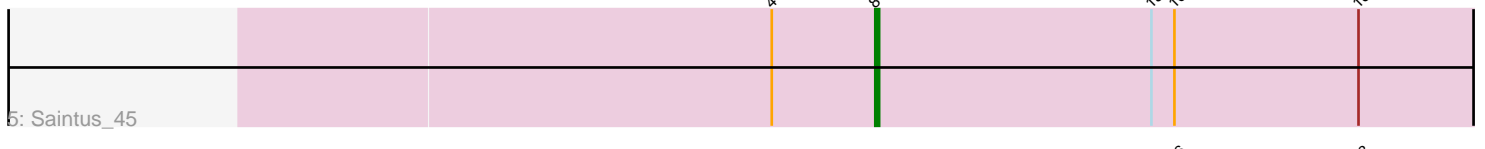
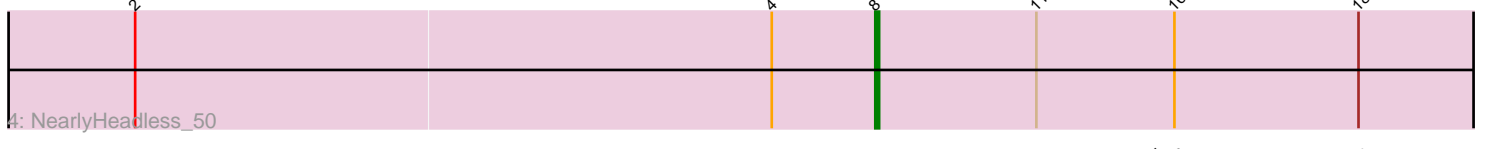
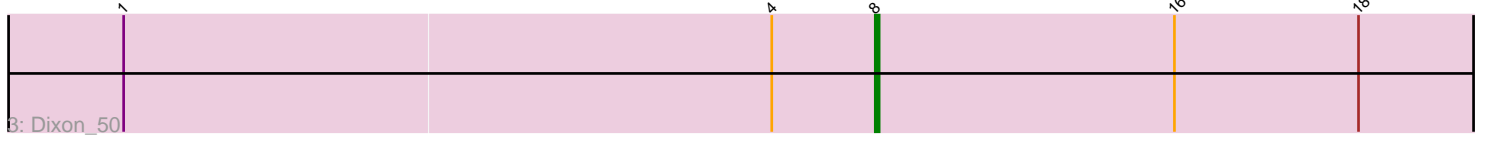
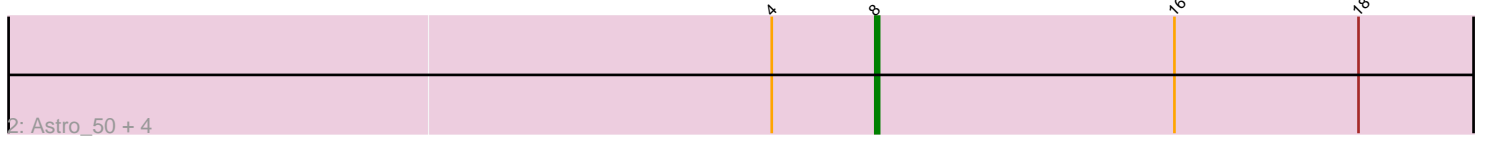
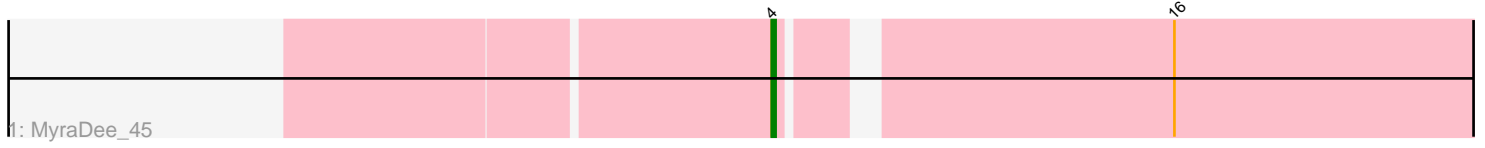


Pham 221698



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 221698 Report

This analysis was run 03/28/25 on database version 593.

Pham number 221698 has 27 members, 2 are drafts.

Phages represented in each track:

- Track 1 : MyraDee_45
- Track 2 : Astro_50, Smeadley_51, Expelliarmus_50, Danforth_50, Roary_51
- Track 3 : Dixon_50
- Track 4 : NearlyHeadless_50
- Track 5 : Saintus_45
- Track 6 : Groundhog_49
- Track 7 : Stephig9_51
- Track 8 : Miskis_9, Aphelion_11, Toniann_11, Norvs_11, Smoothie_11, Lozinak_11, Cucurbita_10, Engineer_11
- Track 9 : Abscondus_10, ClubL_11, Bachita_12, Dusty_10, Culver_10
- Track 10 : WilliamBoone_10
- Track 11 : Geeche_10, PhinkBoden_12

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

The start number called the most often in the published annotations is 7, it was called in 14 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abscondus_10, Aphelion_11, Bachita_12, ClubL_11, Cucurbita_10, Culver_10, Dusty_10, Engineer_11, Geeche_10, Lozinak_11, Miskis_9, Norvs_11, PhinkBoden_12, Smoothie_11, Toniann_11, WilliamBoone_10,

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

-

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

- Astro_50, Danforth_50, Dixon_50, Expelliarmus_50, Groundhog_49, MyraDee_45, NearlyHeadless_50, Roary_51, Saintus_45, Smeadley_51, Stephig9_51,

Summary by start number:

Start 4:

- Found in 11 of 27 (40.7%) of genes in pham

- Manual Annotations of this start: 2 of 25
- Called 18.2% of time when present
- Phage (with cluster) where this start called: MyraDee_45 (A18), StepHig9_51 (A8),

Start 7:

- Found in 16 of 27 (59.3%) of genes in pham
- Manual Annotations of this start: 14 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Abscondus_10 (CQ1), Aphelion_11 (CQ1), Bachita_12 (CQ1), ClubL_11 (CQ1), Cucurbita_10 (CQ1), Culver_10 (CQ1), Dusty_10 (CQ1), Engineer_11 (CQ1), Geeche_10 (CQ1), Lozinak_11 (CQ1), Miskis_9 (CQ1), Norvs_11 (CQ1), PhinkBoden_12 (CQ1), Smoothie_11 (CQ1), Toniann_11 (CQ1), WilliamBoone_10 (CQ1),

Start 8:

- Found in 9 of 27 (33.3%) of genes in pham
- Manual Annotations of this start: 9 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Astro_50 (A8), Danforth_50 (A8), Dixon_50 (A8), Expelliarmus_50 (A8), Groundhog_49 (A8), NearlyHeadless_50 (A8), Roary_51 (A8), Saintus_45 (A8), Smeadley_51 (A8),

Summary by clusters:

There are 3 clusters represented in this pham: A8, CQ1, A18,

Info for manual annotations of cluster A18:

- Start number 4 was manually annotated 1 time for cluster A18.

Info for manual annotations of cluster A8:

- Start number 4 was manually annotated 1 time for cluster A8.
- Start number 8 was manually annotated 9 times for cluster A8.

Info for manual annotations of cluster CQ1:

- Start number 7 was manually annotated 14 times for cluster CQ1.

Gene Information:

Gene: Abscondus_10 Start: 2534, Stop: 2701, Start Num: 7

Candidate Starts for Abscondus_10:

(3, 2426), (Start: 7 @2534 has 14 MA's), (9, 2543), (10, 2573),

Gene: Aphelion_11 Start: 2710, Stop: 2877, Start Num: 7

Candidate Starts for Aphelion_11:

(3, 2602), (Start: 7 @2710 has 14 MA's), (9, 2719), (10, 2749),

Gene: Astro_50 Start: 34486, Stop: 34301, Start Num: 8

Candidate Starts for Astro_50:

(Start: 4 @34513 has 2 MA's), (Start: 8 @34486 has 9 MA's), (16, 34408), (18, 34360),

Gene: Bachita_12 Start: 3210, Stop: 3377, Start Num: 7

Candidate Starts for Bachita_12:
(3, 3102), (Start: 7 @3210 has 14 MA's), (9, 3219), (10, 3249),

Gene: ClubL_11 Start: 2710, Stop: 2877, Start Num: 7
Candidate Starts for ClubL_11:
(3, 2602), (Start: 7 @2710 has 14 MA's), (9, 2719), (10, 2749),

Gene: Cucurbita_10 Start: 2710, Stop: 2877, Start Num: 7
Candidate Starts for Cucurbita_10:
(3, 2602), (Start: 7 @2710 has 14 MA's), (9, 2719), (10, 2749),

Gene: Culver_10 Start: 2534, Stop: 2701, Start Num: 7
Candidate Starts for Culver_10:
(3, 2426), (Start: 7 @2534 has 14 MA's), (9, 2543), (10, 2573),

Gene: Danforth_50 Start: 34515, Stop: 34330, Start Num: 8
Candidate Starts for Danforth_50:
(Start: 4 @34542 has 2 MA's), (Start: 8 @34515 has 9 MA's), (16, 34437), (18, 34389),

Gene: Dixon_50 Start: 34310, Stop: 34125, Start Num: 8
Candidate Starts for Dixon_50:
(1, 34505), (Start: 4 @34337 has 2 MA's), (Start: 8 @34310 has 9 MA's), (16, 34232), (18, 34184),

Gene: Dusty_10 Start: 2534, Stop: 2701, Start Num: 7
Candidate Starts for Dusty_10:
(3, 2426), (Start: 7 @2534 has 14 MA's), (9, 2543), (10, 2573),

Gene: Engineer_11 Start: 2710, Stop: 2877, Start Num: 7
Candidate Starts for Engineer_11:
(3, 2602), (Start: 7 @2710 has 14 MA's), (9, 2719), (10, 2749),

Gene: Expelliarmus_50 Start: 34544, Stop: 34359, Start Num: 8
Candidate Starts for Expelliarmus_50:
(Start: 4 @34571 has 2 MA's), (Start: 8 @34544 has 9 MA's), (16, 34466), (18, 34418),

Gene: Geeche_10 Start: 2529, Stop: 2690, Start Num: 7
Candidate Starts for Geeche_10:
(3, 2421), (Start: 7 @2529 has 14 MA's), (9, 2538), (13, 2589), (15, 2601),

Gene: Groundhog_49 Start: 34442, Stop: 34257, Start Num: 8
Candidate Starts for Groundhog_49:
(1, 34637), (Start: 4 @34469 has 2 MA's), (Start: 8 @34442 has 9 MA's), (16, 34364), (18, 34316),

Gene: Lozinak_11 Start: 2710, Stop: 2877, Start Num: 7
Candidate Starts for Lozinak_11:
(3, 2602), (Start: 7 @2710 has 14 MA's), (9, 2719), (10, 2749),

Gene: Miskis_9 Start: 2710, Stop: 2877, Start Num: 7
Candidate Starts for Miskis_9:
(3, 2602), (Start: 7 @2710 has 14 MA's), (9, 2719), (10, 2749),

Gene: MyraDee_45 Start: 32187, Stop: 31999, Start Num: 4
Candidate Starts for MyraDee_45:

(Start: 4 @32187 has 2 MA's), (16, 32094),

Gene: NearlyHeadless_50 Start: 34281, Stop: 34096, Start Num: 8

Candidate Starts for NearlyHeadless_50:

(2, 34473), (Start: 4 @34308 has 2 MA's), (Start: 8 @34281 has 9 MA's), (11, 34239), (16, 34203), (18, 34155),

Gene: Norvs_11 Start: 2710, Stop: 2877, Start Num: 7

Candidate Starts for Norvs_11:

(3, 2602), (Start: 7 @2710 has 14 MA's), (9, 2719), (10, 2749),

Gene: PhinkBoden_12 Start: 3210, Stop: 3371, Start Num: 7

Candidate Starts for PhinkBoden_12:

(3, 3102), (Start: 7 @3210 has 14 MA's), (9, 3219), (13, 3270), (15, 3282),

Gene: Roary_51 Start: 34500, Stop: 34315, Start Num: 8

Candidate Starts for Roary_51:

(Start: 4 @34527 has 2 MA's), (Start: 8 @34500 has 9 MA's), (16, 34422), (18, 34374),

Gene: Saintus_45 Start: 31216, Stop: 31031, Start Num: 8

Candidate Starts for Saintus_45:

(Start: 4 @31243 has 2 MA's), (Start: 8 @31216 has 9 MA's), (15, 31144), (16, 31138), (18, 31090),

Gene: Smeadley_51 Start: 34666, Stop: 34481, Start Num: 8

Candidate Starts for Smeadley_51:

(Start: 4 @34693 has 2 MA's), (Start: 8 @34666 has 9 MA's), (16, 34588), (18, 34540),

Gene: Smoothie_11 Start: 2710, Stop: 2877, Start Num: 7

Candidate Starts for Smoothie_11:

(3, 2602), (Start: 7 @2710 has 14 MA's), (9, 2719), (10, 2749),

Gene: Stephig9_51 Start: 34732, Stop: 34514, Start Num: 4

Candidate Starts for Stephig9_51:

(Start: 4 @34732 has 2 MA's), (5, 34723), (6, 34714), (12, 34660), (14, 34648), (17, 34600),

Gene: Toniann_11 Start: 2710, Stop: 2877, Start Num: 7

Candidate Starts for Toniann_11:

(3, 2602), (Start: 7 @2710 has 14 MA's), (9, 2719), (10, 2749),

Gene: WilliamBoone_10 Start: 2565, Stop: 2732, Start Num: 7

Candidate Starts for WilliamBoone_10:

(Start: 7 @2565 has 14 MA's), (9, 2574),