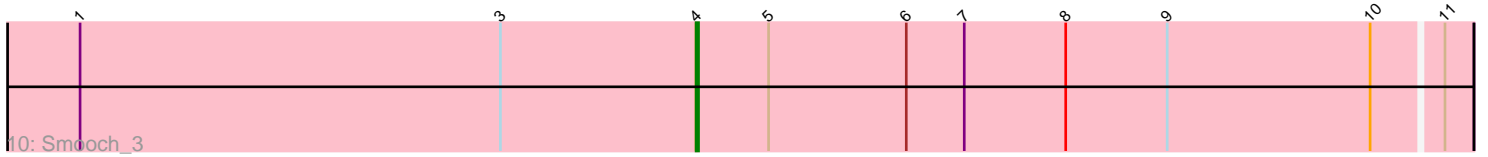
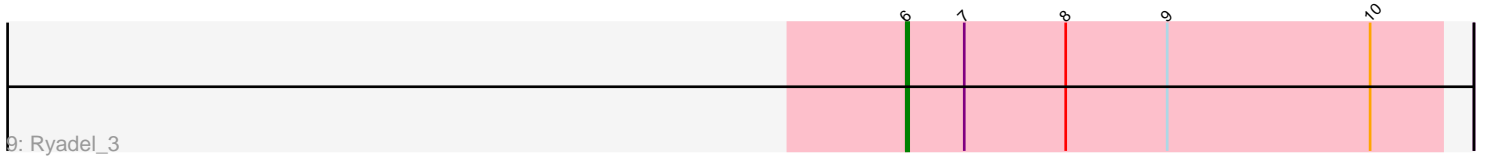
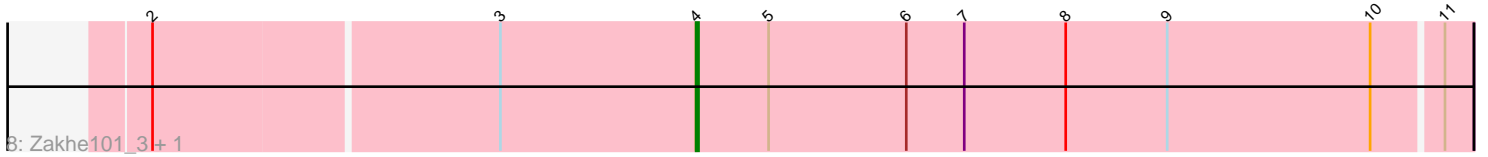
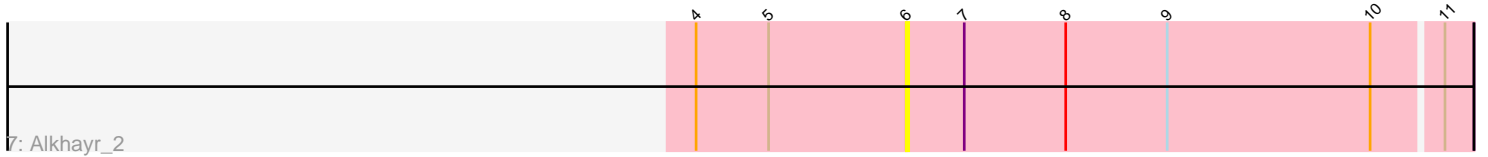
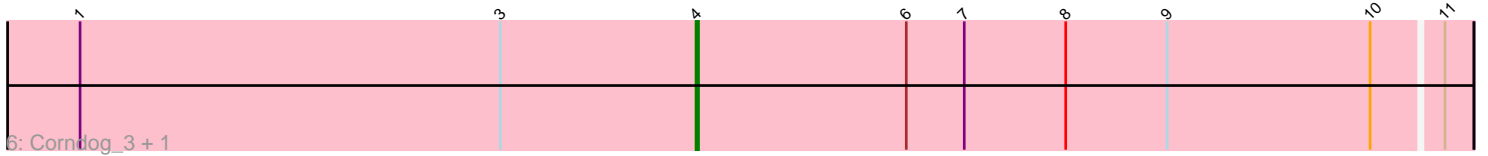
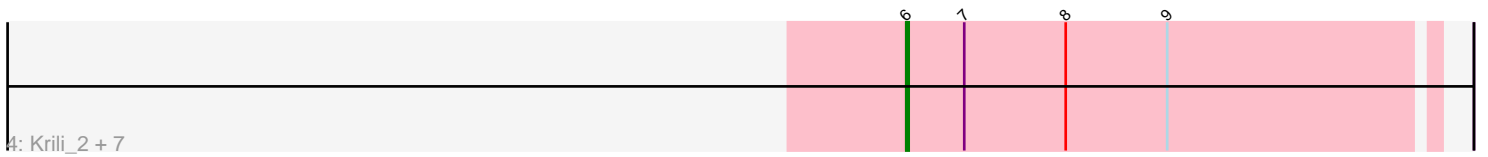
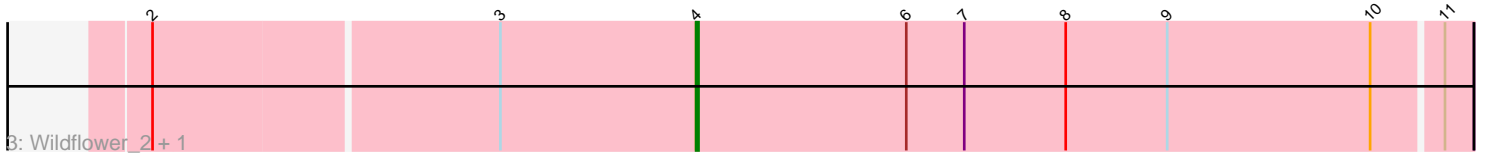
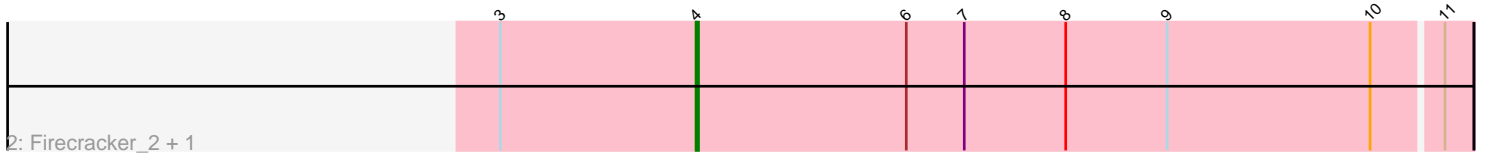
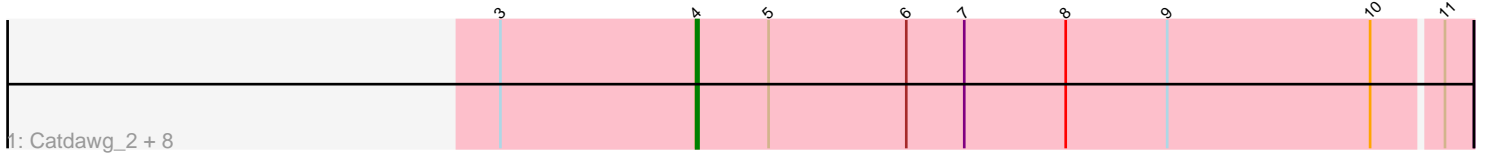


Pham 175008



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 175008 Report

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

Pham number 175008 has 29 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Catdawg_2, FoulBall_2, JangDynasty_2, Bora_2, Familton_3, SchoolBus_2, TelAviv_2, Shida_2, Idergollasper_2
- Track 2 : Firecracker_2, Winget_2
- Track 3 : Wildflower_2, Ashwin_3
- Track 4 : Krili_2, Mori_2, Vorrps_2, Schuy_2, MadKillah_2, NiebruSaylor_2, Blessica_2, Murai_2
- Track 5 : Vagabond_2
- Track 6 : Corndog_3, YungJamal_3
- Track 7 : Alkhayr_2
- Track 8 : Zakhe101_3, Dylan_3
- Track 9 : Ryadel_3
- Track 10 : Smooch_3

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 18 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashwin_3, Bora_2, Catdawg_2, Corndog_3, Dylan_3, Familton_3, Firecracker_2, FoulBall_2, Idergollasper_2, JangDynasty_2, SchoolBus_2, Shida_2, Smooch_3, TelAviv_2, Wildflower_2, Winget_2, YungJamal_3, Zakhe101_3,

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

- Alkhayr_2, Vagabond_2,

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

- Blessica_2, Krili_2, MadKillah_2, Mori_2, Murai_2, NiebruSaylor_2, Ryadel_3, Schuy_2, Vorrps_2,

Summary by start number:

Start 4:

- Found in 20 of 29 (69.0%) of genes in pham

- Manual Annotations of this start: 18 of 27
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Ashwin_3 (O), Bora_2 (O), Catdawg_2 (O), Corndog_3 (O), Dylan_3 (O), Familton_3 (O), Firecracker_2 (O), FoulBall_2 (O), Idergollasper_2 (O), JangDynasty_2 (O), SchoolBus_2 (O), Shida_2 (O), Smooch_3 (O), TelAviv_2 (O), Wildflower_2 (O), Winget_2 (O), YungJamal_3 (O), Zakhe101_3 (O),

Start 6:

- Found in 29 of 29 (100.0%) of genes in pham
- Manual Annotations of this start: 9 of 27
- Called 37.9% of time when present
- Phage (with cluster) where this start called: Alkhayr_2 (O), Blessica_2 (O), Krili_2 (O), MadKillah_2 (O), Mori_2 (O), Murai_2 (O), NiebruSaylor_2 (O), Ryadel_3 (O), Schuy_2 (O), Vagabond_2 (O), Vorrps_2 (O),

Summary by clusters:

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:

- Start number 4 was manually annotated 18 times for cluster O.
- Start number 6 was manually annotated 9 times for cluster O.

Gene Information:

Gene: Alkhayr_2 Start: 589, Stop: 359, Start Num: 6

Candidate Starts for Alkhayr_2:

(Start: 4 @676 has 18 MA's), (5, 646), (Start: 6 @589 has 9 MA's), (7, 565), (8, 523), (9, 481), (10, 397), (11, 370),

Gene: Ashwin_3 Start: 1070, Stop: 753, Start Num: 4

Candidate Starts for Ashwin_3:

(2, 1289), (3, 1151), (Start: 4 @1070 has 18 MA's), (Start: 6 @983 has 9 MA's), (7, 959), (8, 917), (9, 875), (10, 791), (11, 764),

Gene: Blessica_2 Start: 626, Stop: 411, Start Num: 6

Candidate Starts for Blessica_2:

(Start: 6 @626 has 9 MA's), (7, 602), (8, 560), (9, 518),

Gene: Bora_2 Start: 676, Stop: 359, Start Num: 4

Candidate Starts for Bora_2:

(3, 757), (Start: 4 @676 has 18 MA's), (5, 646), (Start: 6 @589 has 9 MA's), (7, 565), (8, 523), (9, 481), (10, 397), (11, 370),

Gene: Catdawg_2 Start: 675, Stop: 358, Start Num: 4

Candidate Starts for Catdawg_2:

(3, 756), (Start: 4 @675 has 18 MA's), (5, 645), (Start: 6 @588 has 9 MA's), (7, 564), (8, 522), (9, 480), (10, 396), (11, 369),

Gene: Corndog_3 Start: 968, Stop: 651, Start Num: 4

Candidate Starts for Corndog_3:

(1, 1223), (3, 1049), (Start: 4 @968 has 18 MA's), (Start: 6 @881 has 9 MA's), (7, 857), (8, 815), (9, 773), (10, 689), (11, 662),

Gene: Dylan_3 Start: 1074, Stop: 757, Start Num: 4

Candidate Starts for Dylan_3:

(2, 1293), (3, 1155), (Start: 4 @1074 has 18 MA's), (5, 1044), (Start: 6 @987 has 9 MA's), (7, 963), (8, 921), (9, 879), (10, 795), (11, 768),

Gene: Familton_3 Start: 676, Stop: 359, Start Num: 4

Candidate Starts for Familton_3:

(3, 757), (Start: 4 @676 has 18 MA's), (5, 646), (Start: 6 @589 has 9 MA's), (7, 565), (8, 523), (9, 481), (10, 397), (11, 370),

Gene: Firecracker_2 Start: 677, Stop: 360, Start Num: 4

Candidate Starts for Firecracker_2:

(3, 758), (Start: 4 @677 has 18 MA's), (Start: 6 @590 has 9 MA's), (7, 566), (8, 524), (9, 482), (10, 398), (11, 371),

Gene: FoulBall_2 Start: 676, Stop: 359, Start Num: 4

Candidate Starts for FoulBall_2:

(3, 757), (Start: 4 @676 has 18 MA's), (5, 646), (Start: 6 @589 has 9 MA's), (7, 565), (8, 523), (9, 481), (10, 397), (11, 370),

Gene: Idergollasper_2 Start: 676, Stop: 359, Start Num: 4

Candidate Starts for Idergollasper_2:

(3, 757), (Start: 4 @676 has 18 MA's), (5, 646), (Start: 6 @589 has 9 MA's), (7, 565), (8, 523), (9, 481), (10, 397), (11, 370),

Gene: JangDynasty_2 Start: 681, Stop: 364, Start Num: 4

Candidate Starts for JangDynasty_2:

(3, 762), (Start: 4 @681 has 18 MA's), (5, 651), (Start: 6 @594 has 9 MA's), (7, 570), (8, 528), (9, 486), (10, 402), (11, 375),

Gene: Krili_2 Start: 628, Stop: 413, Start Num: 6

Candidate Starts for Krili_2:

(Start: 6 @628 has 9 MA's), (7, 604), (8, 562), (9, 520),

Gene: MadKillah_2 Start: 628, Stop: 413, Start Num: 6

Candidate Starts for MadKillah_2:

(Start: 6 @628 has 9 MA's), (7, 604), (8, 562), (9, 520),

Gene: Mori_2 Start: 628, Stop: 413, Start Num: 6

Candidate Starts for Mori_2:

(Start: 6 @628 has 9 MA's), (7, 604), (8, 562), (9, 520),

Gene: Murai_2 Start: 628, Stop: 413, Start Num: 6

Candidate Starts for Murai_2:

(Start: 6 @628 has 9 MA's), (7, 604), (8, 562), (9, 520),

Gene: NiebruSaylor_2 Start: 628, Stop: 413, Start Num: 6

Candidate Starts for NiebruSaylor_2:

(Start: 6 @628 has 9 MA's), (7, 604), (8, 562), (9, 520),

Gene: Ryadel_3 Start: 740, Stop: 519, Start Num: 6
Candidate Starts for Ryadel_3:
(Start: 6 @740 has 9 MA's), (7, 716), (8, 674), (9, 632), (10, 548),

Gene: SchoolBus_2 Start: 676, Stop: 359, Start Num: 4
Candidate Starts for SchoolBus_2:
(3, 757), (Start: 4 @676 has 18 MA's), (5, 646), (Start: 6 @589 has 9 MA's), (7, 565), (8, 523), (9, 481),
(10, 397), (11, 370),

Gene: Schuy_2 Start: 628, Stop: 413, Start Num: 6
Candidate Starts for Schuy_2:
(Start: 6 @628 has 9 MA's), (7, 604), (8, 562), (9, 520),

Gene: Shida_2 Start: 676, Stop: 359, Start Num: 4
Candidate Starts for Shida_2:
(3, 757), (Start: 4 @676 has 18 MA's), (5, 646), (Start: 6 @589 has 9 MA's), (7, 565), (8, 523), (9, 481),
(10, 397), (11, 370),

Gene: Smooch_3 Start: 966, Stop: 649, Start Num: 4
Candidate Starts for Smooch_3:
(1, 1221), (3, 1047), (Start: 4 @966 has 18 MA's), (5, 936), (Start: 6 @879 has 9 MA's), (7, 855), (8,
813), (9, 771), (10, 687), (11, 660),

Gene: TelAviv_2 Start: 676, Stop: 359, Start Num: 4
Candidate Starts for TelAviv_2:
(3, 757), (Start: 4 @676 has 18 MA's), (5, 646), (Start: 6 @589 has 9 MA's), (7, 565), (8, 523), (9, 481),
(10, 397), (11, 370),

Gene: Vagabond_2 Start: 591, Stop: 361, Start Num: 6
Candidate Starts for Vagabond_2:
(Start: 4 @678 has 18 MA's), (Start: 6 @591 has 9 MA's), (7, 567), (8, 525), (9, 483), (10, 399), (11,
372),

Gene: Vorrps_2 Start: 628, Stop: 413, Start Num: 6
Candidate Starts for Vorrps_2:
(Start: 6 @628 has 9 MA's), (7, 604), (8, 562), (9, 520),

Gene: Wildflower_2 Start: 722, Stop: 405, Start Num: 4
Candidate Starts for Wildflower_2:
(2, 941), (3, 803), (Start: 4 @722 has 18 MA's), (Start: 6 @635 has 9 MA's), (7, 611), (8, 569), (9, 527),
(10, 443), (11, 416),

Gene: Winget_2 Start: 677, Stop: 360, Start Num: 4
Candidate Starts for Winget_2:
(3, 758), (Start: 4 @677 has 18 MA's), (Start: 6 @590 has 9 MA's), (7, 566), (8, 524), (9, 482), (10,
398), (11, 371),

Gene: YungJamal_3 Start: 966, Stop: 649, Start Num: 4
Candidate Starts for YungJamal_3:
(1, 1221), (3, 1047), (Start: 4 @966 has 18 MA's), (Start: 6 @879 has 9 MA's), (7, 855), (8, 813), (9,
771), (10, 687), (11, 660),

Gene: Zakhe101_3 Start: 1074, Stop: 757, Start Num: 4

Candidate Starts for Zakhe101_3:

(2, 1293), (3, 1155), (Start: 4 @1074 has 18 MA's), (5, 1044), (Start: 6 @987 has 9 MA's), (7, 963), (8, 921), (9, 879), (10, 795), (11, 768),