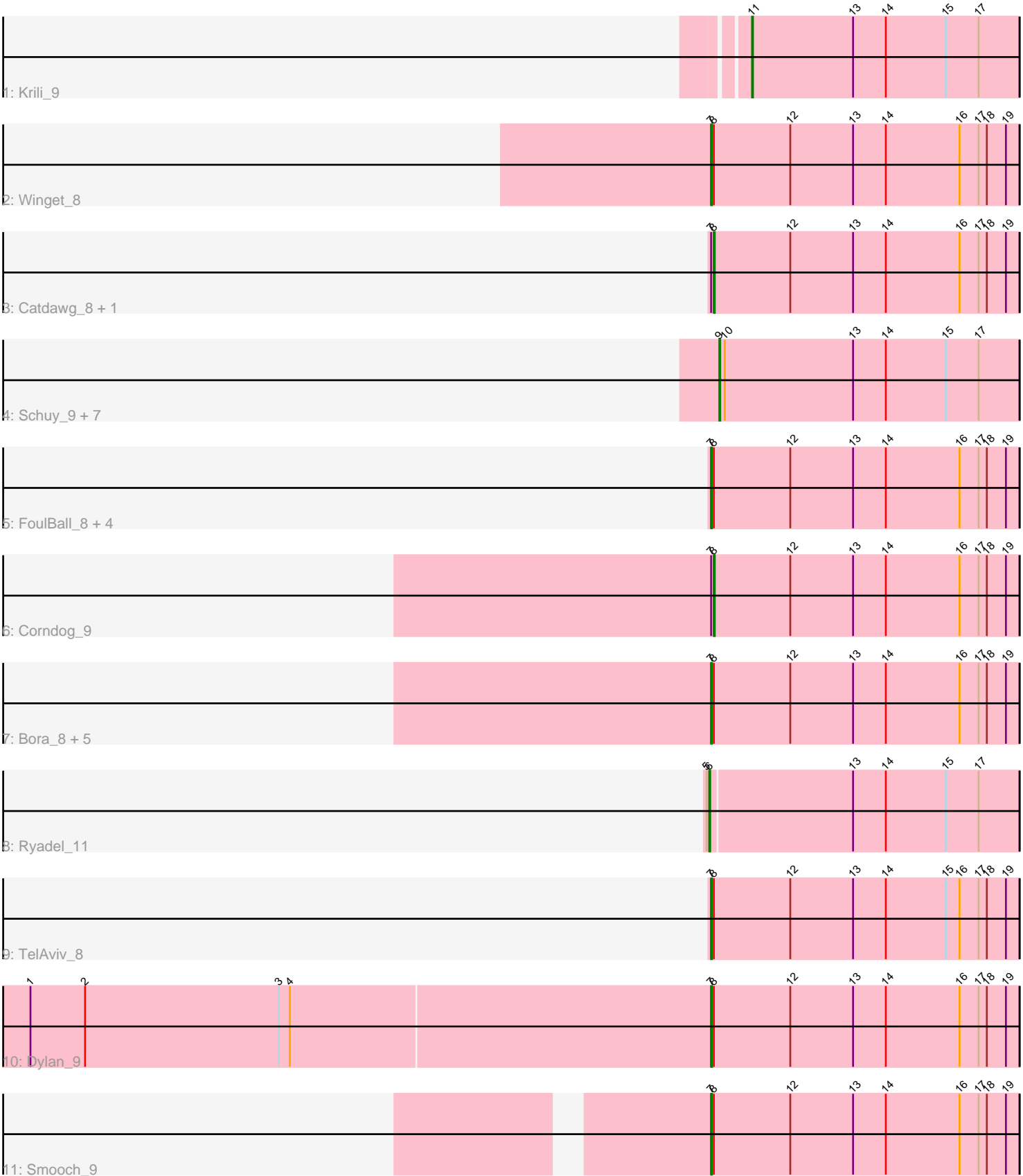


Pham 3444



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 3444 Report

This analysis was run 04/28/24 on database version 559.

Pham number 3444 has 28 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Krili_9
- Track 2 : Winget_8
- Track 3 : Catdawg_8, Blessica_8
- Track 4 : Schuy_9, Alkhayr_9, Vorrrps_9, Mori_9, MadKillah_9, NiebruSaylor_9, Shida_9, Murai_9
- Track 5 : FoulBall_8, JangDynasty_8, SchoolBus_8, Familton_9, Idergollasper_8
- Track 6 : Corndog_9
- Track 7 : Bora_8, Zakhe101_9, Wildflower_8, Ashwin_9, Firecracker_8, YungJamal_9
- Track 8 : Ryadel_11
- Track 9 : TelAviv_8
- Track 10 : Dylan_9
- Track 11 : Smooch_9

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 11 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ashwin_9, Bora_8, Dylan_9, Familton_9, Firecracker_8, FoulBall_8, Idergollasper_8, JangDynasty_8, SchoolBus_8, Smooch_9, TelAviv_8, Wildflower_8, Winget_8, YungJamal_9, Zakhe101_9,

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

- Blessica_8, Catdawg_8, Corndog_9,

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

- Alkhayr_9, Krili_9, MadKillah_9, Mori_9, Murai_9, NiebruSaylor_9, Ryadel_11, Schuy_9, Shida_9, Vorrrps_9,

Summary by start number:

Start 6:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ryadel_11 (O),

Start 7:

- Found in 18 of 28 (64.3%) of genes in pham
- Manual Annotations of this start: 11 of 22
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Ashwin_9 (O), Bora_8 (O), Dylan_9 (O), Familton_9 (O), Firecracker_8 (O), FoulBall_8 (O), Idergollasper_8 (O), JangDynasty_8 (O), SchoolBus_8 (O), Smooch_9 (O), TelAviv_8 (O), Wildflower_8 (O), Winget_8 (O), YungJamal_9 (O), Zakhe101_9 (O),

Start 8:

- Found in 18 of 28 (64.3%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Blessica_8 (O), Catdawg_8 (O), Corndog_9 (O),

Start 9:

- Found in 8 of 28 (28.6%) of genes in pham
- Manual Annotations of this start: 6 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alkhayr_9 (O), MadKillah_9 (O), Mori_9 (O), Murai_9 (O), NiebruSaylor_9 (O), Schuy_9 (O), Shida_9 (O), Vorrrps_9 (O),

Start 11:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Krili_9 (O),

Summary by clusters:

There is one cluster represented in this pham: O

Info for manual annotations of cluster O:

- Start number 6 was manually annotated 1 time for cluster O.
- Start number 7 was manually annotated 11 times for cluster O.
- Start number 8 was manually annotated 3 times for cluster O.
- Start number 9 was manually annotated 6 times for cluster O.
- Start number 11 was manually annotated 1 time for cluster O.

Gene Information:

Gene: Alkhayr_9 Start: 2839, Stop: 2510, Start Num: 9

Candidate Starts for Alkhayr_9:

(Start: 9 @2839 has 6 MA's), (10, 2833), (13, 2692), (14, 2656), (15, 2590), (17, 2554),

Gene: Ashwin_9 Start: 3063, Stop: 2725, Start Num: 7

Candidate Starts for Ashwin_9:

(Start: 7 @3063 has 11 MA's), (Start: 8 @3060 has 3 MA's), (12, 2976), (13, 2907), (14, 2871), (16, 2790), (17, 2769), (18, 2760), (19, 2739),

Gene: Blessica_8 Start: 2615, Stop: 2280, Start Num: 8

Candidate Starts for Blessica_8:

(Start: 7 @2618 has 11 MA's), (Start: 8 @2615 has 3 MA's), (12, 2531), (13, 2462), (14, 2426), (16, 2345), (17, 2324), (18, 2315), (19, 2294),

Gene: Bora_8 Start: 2753, Stop: 2415, Start Num: 7

Candidate Starts for Bora_8:

(Start: 7 @2753 has 11 MA's), (Start: 8 @2750 has 3 MA's), (12, 2666), (13, 2597), (14, 2561), (16, 2480), (17, 2459), (18, 2450), (19, 2429),

Gene: Catdawg_8 Start: 2665, Stop: 2330, Start Num: 8

Candidate Starts for Catdawg_8:

(Start: 7 @2668 has 11 MA's), (Start: 8 @2665 has 3 MA's), (12, 2581), (13, 2512), (14, 2476), (16, 2395), (17, 2374), (18, 2365), (19, 2344),

Gene: Corndog_9 Start: 3042, Stop: 2707, Start Num: 8

Candidate Starts for Corndog_9:

(Start: 7 @3045 has 11 MA's), (Start: 8 @3042 has 3 MA's), (12, 2958), (13, 2889), (14, 2853), (16, 2772), (17, 2751), (18, 2742), (19, 2721),

Gene: Dylan_9 Start: 3067, Stop: 2729, Start Num: 7

Candidate Starts for Dylan_9:

(1, 3811), (2, 3751), (3, 3538), (4, 3526), (Start: 7 @3067 has 11 MA's), (Start: 8 @3064 has 3 MA's), (12, 2980), (13, 2911), (14, 2875), (16, 2794), (17, 2773), (18, 2764), (19, 2743),

Gene: Familton_9 Start: 2669, Stop: 2331, Start Num: 7

Candidate Starts for Familton_9:

(Start: 7 @2669 has 11 MA's), (Start: 8 @2666 has 3 MA's), (12, 2582), (13, 2513), (14, 2477), (16, 2396), (17, 2375), (18, 2366), (19, 2345),

Gene: Firecracker_8 Start: 2754, Stop: 2416, Start Num: 7

Candidate Starts for Firecracker_8:

(Start: 7 @2754 has 11 MA's), (Start: 8 @2751 has 3 MA's), (12, 2667), (13, 2598), (14, 2562), (16, 2481), (17, 2460), (18, 2451), (19, 2430),

Gene: FoulBall_8 Start: 2669, Stop: 2331, Start Num: 7

Candidate Starts for FoulBall_8:

(Start: 7 @2669 has 11 MA's), (Start: 8 @2666 has 3 MA's), (12, 2582), (13, 2513), (14, 2477), (16, 2396), (17, 2375), (18, 2366), (19, 2345),

Gene: Idergollasper_8 Start: 2669, Stop: 2331, Start Num: 7

Candidate Starts for Idergollasper_8:

(Start: 7 @2669 has 11 MA's), (Start: 8 @2666 has 3 MA's), (12, 2582), (13, 2513), (14, 2477), (16, 2396), (17, 2375), (18, 2366), (19, 2345),

Gene: JangDynasty_8 Start: 2758, Stop: 2420, Start Num: 7

Candidate Starts for JangDynasty_8:

(Start: 7 @2758 has 11 MA's), (Start: 8 @2755 has 3 MA's), (12, 2671), (13, 2602), (14, 2566), (16, 2485), (17, 2464), (18, 2455), (19, 2434),

Gene: Krili_9 Start: 2664, Stop: 2371, Start Num: 11

Candidate Starts for Krili_9:

(Start: 11 @2664 has 1 MA's), (13, 2553), (14, 2517), (15, 2451), (17, 2415),

Gene: MadKillah_9 Start: 2700, Stop: 2371, Start Num: 9

Candidate Starts for MadKillah_9:

(Start: 9 @2700 has 6 MA's), (10, 2694), (13, 2553), (14, 2517), (15, 2451), (17, 2415),

Gene: Mori_9 Start: 2700, Stop: 2371, Start Num: 9

Candidate Starts for Mori_9:

(Start: 9 @2700 has 6 MA's), (10, 2694), (13, 2553), (14, 2517), (15, 2451), (17, 2415),

Gene: Murai_9 Start: 2700, Stop: 2371, Start Num: 9

Candidate Starts for Murai_9:

(Start: 9 @2700 has 6 MA's), (10, 2694), (13, 2553), (14, 2517), (15, 2451), (17, 2415),

Gene: NiebruSaylor_9 Start: 2700, Stop: 2371, Start Num: 9

Candidate Starts for NiebruSaylor_9:

(Start: 9 @2700 has 6 MA's), (10, 2694), (13, 2553), (14, 2517), (15, 2451), (17, 2415),

Gene: Ryadel_11 Start: 3441, Stop: 3106, Start Num: 6

Candidate Starts for Ryadel_11:

(5, 3444), (Start: 6 @3441 has 1 MA's), (13, 3288), (14, 3252), (15, 3186), (17, 3150),

Gene: SchoolBus_8 Start: 2669, Stop: 2331, Start Num: 7

Candidate Starts for SchoolBus_8:

(Start: 7 @2669 has 11 MA's), (Start: 8 @2666 has 3 MA's), (12, 2582), (13, 2513), (14, 2477), (16, 2396), (17, 2375), (18, 2366), (19, 2345),

Gene: Schuy_9 Start: 2700, Stop: 2371, Start Num: 9

Candidate Starts for Schuy_9:

(Start: 9 @2700 has 6 MA's), (10, 2694), (13, 2553), (14, 2517), (15, 2451), (17, 2415),

Gene: Shida_9 Start: 2749, Stop: 2420, Start Num: 9

Candidate Starts for Shida_9:

(Start: 9 @2749 has 6 MA's), (10, 2743), (13, 2602), (14, 2566), (15, 2500), (17, 2464),

Gene: Smooch_9 Start: 3043, Stop: 2705, Start Num: 7

Candidate Starts for Smooch_9:

(Start: 7 @3043 has 11 MA's), (Start: 8 @3040 has 3 MA's), (12, 2956), (13, 2887), (14, 2851), (16, 2770), (17, 2749), (18, 2740), (19, 2719),

Gene: TelAviv_8 Start: 2666, Stop: 2328, Start Num: 7

Candidate Starts for TelAviv_8:

(Start: 7 @2666 has 11 MA's), (Start: 8 @2663 has 3 MA's), (12, 2579), (13, 2510), (14, 2474), (15, 2408), (16, 2393), (17, 2372), (18, 2363), (19, 2342),

Gene: Vorrrps_9 Start: 2700, Stop: 2371, Start Num: 9

Candidate Starts for Vorrrps_9:

(Start: 9 @2700 has 6 MA's), (10, 2694), (13, 2553), (14, 2517), (15, 2451), (17, 2415),

Gene: Wildflower_8 Start: 2715, Stop: 2377, Start Num: 7

Candidate Starts for Wildflower_8:

(Start: 7 @2715 has 11 MA's), (Start: 8 @2712 has 3 MA's), (12, 2628), (13, 2559), (14, 2523), (16, 2442), (17, 2421), (18, 2412), (19, 2391),

Gene: Winget_8 Start: 2754, Stop: 2416, Start Num: 7

Candidate Starts for Winget_8:

(Start: 7 @2754 has 11 MA's), (Start: 8 @2751 has 3 MA's), (12, 2667), (13, 2598), (14, 2562), (16, 2481), (17, 2460), (18, 2451), (19, 2430),

Gene: YungJamal_9 Start: 3043, Stop: 2705, Start Num: 7

Candidate Starts for YungJamal_9:

(Start: 7 @3043 has 11 MA's), (Start: 8 @3040 has 3 MA's), (12, 2956), (13, 2887), (14, 2851), (16, 2770), (17, 2749), (18, 2740), (19, 2719),

Gene: Zakhe101_9 Start: 3067, Stop: 2729, Start Num: 7

Candidate Starts for Zakhe101_9:

(Start: 7 @3067 has 11 MA's), (Start: 8 @3064 has 3 MA's), (12, 2980), (13, 2911), (14, 2875), (16, 2794), (17, 2773), (18, 2764), (19, 2743),