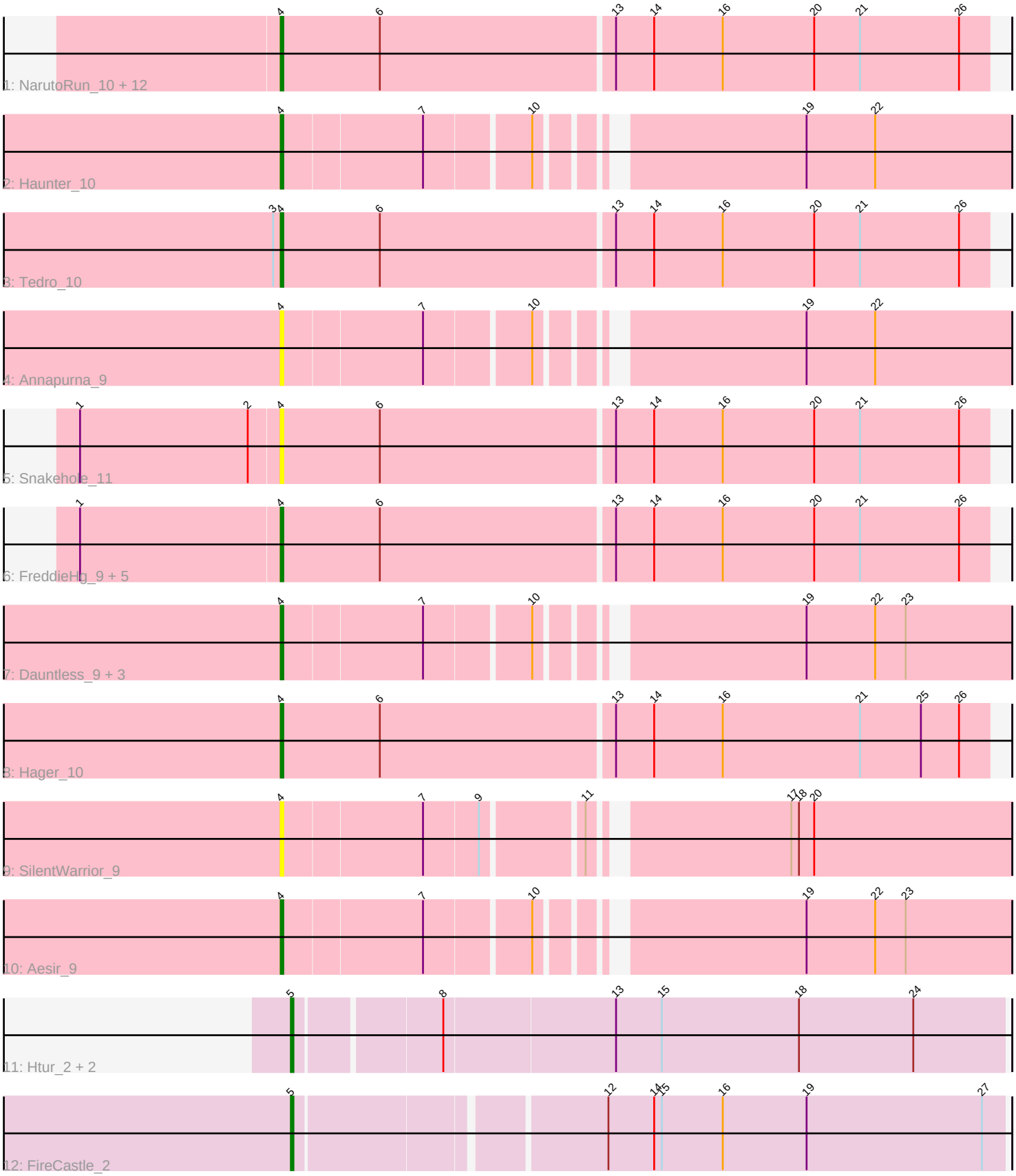
Pham 224764


4 6 13 14 16 20 21 26
1: NarutoRun_10 + 12
4 7 10 19 22
2: Haunter_10
3 4 6 13 14 16 20 21 26
3: Tedro_10
4 7 10 19 22
4: Annapurna_9
1 2 4 6 13 14 16 20 21 26
5: Snakehole_11
1 4 6 13 14 16 20 21 26
6: FreddieHg_9 + 5
4 7 10 19 22 23
7: Dauntless_9 + 3
4 6 13 14 16 21 25 26
8: Hager_10
4 7 9 11 17 18 20
9: SilentWarrior_9
4 7 10 19 22 23
10: Aesir_9
5 8 13 15 18 24
11: Htur_2 + 2
5 12 14 15 16 19 27
12: FireCastle_2

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 224764 Report

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

Pham number 224764 has 34 members, 5 are drafts.

Phages represented in each track:
• Track 1 : NarutoRun_10, Cybele_10, PhunaPhoke_10, Gilda_10, Poultress_9, Kate_10, AnnaSerena_10, Pharpay_10, Neptune_10, Anakin_10, OverHedge_10, Potty_10, Rachella_10
• Track 2 : Haunter_10
• Track 3 : Tedro_10
• Track 4 : Annapurna_9
• Track 5 : Snakehole_11
• Track 6 : FreddieHg_9, CoolCookie_10, Chivey_9, Tongui_9, Hiddenleaf_9, JingleBells_9
• Track 7 : Dauntless_9, JDawG_10, Erudite_9, MortySmith_9
• Track 8 : Hager_10
• Track 9 : SilentWarrior_9
• Track 10 : Aesir_9
• Track 11 : Htur_2, Rasovi_2, Linayshia_2
• Track 12 : FireCastle_2

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 26 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Aesir_9, Anakin_10, AnnaSerena_10, Annapurna_9, Chivey_9, CoolCookie_10, Cybele_10, Dauntless_9, Erudite_9, FreddieHg_9, Gilda_10, Hager_10, Haunter_10, Hiddenleaf_9, JDawG_10, JingleBells_9, Kate_10, MortySmith_9, NarutoRun_10, Neptune_10, OverHedge_10, Pharpay_10, PhunaPhoke_10, Potty_10, Poultress_9, Rachella_10, SilentWarrior_9, Snakehole_11, Tedro_10, Tongui_9,

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

Genes that do not have the "Most Annotated" start:
• FireCastle_2, Htur_2, Linayshia_2, Rasovi_2,

Summary by start number:

Start 4:
• Found in 30 of 34 (88.2%) of genes in pham
• Manual Annotations of this start: 26 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aesir_9 (EF), Anakin_10 (EF), AnnaSerena_10 (EF), Annapurna_9 (EF), Chivey_9 (EF), CoolCookie_10 (EF), Cybele_10 (EF), Dauntless_9 (EF), Erudite_9 (EF), FreddieHg_9 (EF), Gilda_10 (EF), Hager_10 (EF), Haunter_10 (EF), Hiddenleaf_9 (EF), JDawG_10 (EF), JingleBells_9 (EF), Kate_10 (EF), MortySmith_9 (EF), NarutoRun_10 (EF), Neptune_10 (EF), OverHedge_10 (EF), Pharpay_10 (EF), PhunaPhoke_10 (EF), Potty_10 (EF), Poultress_9 (EF), Rachella_10 (EF), SilentWarrior_9 (EF), Snakehole_11 (EF), Tedro_10 (EF), Tongui_9 (EF),

Start 5:
• Found in 4 of 34 (11.8%) of genes in pham
• Manual Annotations of this start: 3 of 29
• Called 100.0% of time when present
• Phage (with cluster) where this start called: FireCastle_2 (EJ), Htur_2 (EJ), Linayshia_2 (EJ), Rasovi_2 (EJ),

Summary by clusters:

There are 2 clusters represented in this pham: EF, EJ,

Info for manual annotations of cluster EF:
•Start number 4 was manually annotated 26 times for cluster EF.

Info for manual annotations of cluster EJ:
•Start number 5 was manually annotated 3 times for cluster EJ.

Gene Information:

Gene: Aesir_9 Start: 2665, Stop: 2928, Start Num: 4
Candidate Starts for Aesir_9:
(Start: 4 @2665 has 26 MA's), (7, 2719), (10, 2758), (19, 2848), (22, 2875), (23, 2887),

Gene: Anakin_10 Start: 2867, Stop: 3142, Start Num: 4
Candidate Starts for Anakin_10:
(Start: 4 @2867 has 26 MA's), (6, 2906), (13, 2996), (14, 3011), (16, 3038), (20, 3074), (21, 3092), (26, 3131),

Gene: AnnaSerena_10 Start: 2864, Stop: 3139, Start Num: 4
Candidate Starts for AnnaSerena_10:
(Start: 4 @2864 has 26 MA's), (6, 2903), (13, 2993), (14, 3008), (16, 3035), (20, 3071), (21, 3089), (26, 3128),

Gene: Annapurna_9 Start: 2609, Stop: 2872, Start Num: 4
Candidate Starts for Annapurna_9:
(Start: 4 @2609 has 26 MA's), (7, 2663), (10, 2702), (19, 2792), (22, 2819),

Gene: Chivey_9 Start: 2590, Stop: 2865, Start Num: 4
Candidate Starts for Chivey_9:
(1, 2512), (Start: 4 @2590 has 26 MA's), (6, 2629), (13, 2719), (14, 2734), (16, 2761), (20, 2797), (21, 2815), (26, 2854),

Gene: CoolCookie_10 Start: 2859, Stop: 3134, Start Num: 4
Candidate Starts for CoolCookie_10:
(1, 2781), (Start: 4 @2859 has 26 MA's), (6, 2898), (13, 2988), (14, 3003), (16, 3030), (20, 3066), (21, 3084), (26, 3123),

Gene: Cybele_10 Start: 2832, Stop: 3107, Start Num: 4
Candidate Starts for Cybele_10:
(Start: 4 @2832 has 26 MA's), (6, 2871), (13, 2961), (14, 2976), (16, 3003), (20, 3039), (21, 3057), (26, 3096),

Gene: Dauntless_9 Start: 2594, Stop: 2857, Start Num: 4
Candidate Starts for Dauntless_9:
(Start: 4 @2594 has 26 MA's), (7, 2648), (10, 2687), (19, 2777), (22, 2804), (23, 2816),

Gene: Erudite_9 Start: 2594, Stop: 2857, Start Num: 4
Candidate Starts for Erudite_9:
(Start: 4 @2594 has 26 MA's), (7, 2648), (10, 2687), (19, 2777), (22, 2804), (23, 2816),

Gene: FireCastle_2 Start: 591, Stop: 860, Start Num: 5
Candidate Starts for FireCastle_2:
(Start: 5 @591 has 3 MA's), (12, 705), (14, 723), (15, 726), (16, 750), (19, 783), (27, 852),

Gene: FreddieHg_9 Start: 2603, Stop: 2878, Start Num: 4
Candidate Starts for FreddieHg_9:
(1, 2525), (Start: 4 @2603 has 26 MA's), (6, 2642), (13, 2732), (14, 2747), (16, 2774), (20, 2810), (21, 2828), (26, 2867),

Gene: Gilda_10 Start: 2856, Stop: 3131, Start Num: 4
Candidate Starts for Gilda_10:
(Start: 4 @2856 has 26 MA's), (6, 2895), (13, 2985), (14, 3000), (16, 3027), (20, 3063), (21, 3081), (26, 3120),

Gene: Hager_10 Start: 2857, Stop: 3132, Start Num: 4
Candidate Starts for Hager_10:
(Start: 4 @2857 has 26 MA's), (6, 2896), (13, 2986), (14, 3001), (16, 3028), (21, 3082), (25, 3106), (26, 3121),

Gene: Haunter_10 Start: 2818, Stop: 3081, Start Num: 4
Candidate Starts for Haunter_10:
(Start: 4 @2818 has 26 MA's), (7, 2872), (10, 2911), (19, 3001), (22, 3028),

Gene: Hiddenleaf_9 Start: 2590, Stop: 2865, Start Num: 4
Candidate Starts for Hiddenleaf_9:
(1, 2512), (Start: 4 @2590 has 26 MA's), (6, 2629), (13, 2719), (14, 2734), (16, 2761), (20, 2797), (21, 2815), (26, 2854),

Gene: Htur_2 Start: 600, Stop: 872, Start Num: 5

Candidate Starts for Htur_2:
(Start: 5 @600 has 3 MA's), (8, 654), (13, 720), (15, 738), (18, 792), (24, 837),

Gene: JDawG_10 Start: 2659, Stop: 2922, Start Num: 4
Candidate Starts for JDawG_10:
(Start: 4 @2659 has 26 MA's), (7, 2713), (10, 2752), (19, 2842), (22, 2869), (23, 2881),

Gene: JingleBells_9 Start: 2659, Stop: 2934, Start Num: 4
Candidate Starts for JingleBells_9:
(1, 2581), (Start: 4 @2659 has 26 MA's), (6, 2698), (13, 2788), (14, 2803), (16, 2830), (20, 2866), (21, 2884), (26, 2923),

Gene: Kate_10 Start: 2864, Stop: 3139, Start Num: 4
Candidate Starts for Kate_10:
(Start: 4 @2864 has 26 MA's), (6, 2903), (13, 2993), (14, 3008), (16, 3035), (20, 3071), (21, 3089), (26, 3128),

Gene: Linayshia_2 Start: 600, Stop: 872, Start Num: 5
Candidate Starts for Linayshia_2:
(Start: 5 @600 has 3 MA's), (8, 654), (13, 720), (15, 738), (18, 792), (24, 837),

Gene: MortySmith_9 Start: 2576, Stop: 2839, Start Num: 4
Candidate Starts for MortySmith_9:
(Start: 4 @2576 has 26 MA's), (7, 2630), (10, 2669), (19, 2759), (22, 2786), (23, 2798),

Gene: NarutoRun_10 Start: 2867, Stop: 3142, Start Num: 4
Candidate Starts for NarutoRun_10:
(Start: 4 @2867 has 26 MA's), (6, 2906), (13, 2996), (14, 3011), (16, 3038), (20, 3074), (21, 3092), (26, 3131),

Gene: Neptune_10 Start: 2832, Stop: 3107, Start Num: 4
Candidate Starts for Neptune_10:
(Start: 4 @2832 has 26 MA's), (6, 2871), (13, 2961), (14, 2976), (16, 3003), (20, 3039), (21, 3057), (26, 3096),

Gene: OverHedge_10 Start: 2829, Stop: 3104, Start Num: 4
Candidate Starts for OverHedge_10:
(Start: 4 @2829 has 26 MA's), (6, 2868), (13, 2958), (14, 2973), (16, 3000), (20, 3036), (21, 3054), (26, 3093),

Gene: Pharpay_10 Start: 2877, Stop: 3152, Start Num: 4
Candidate Starts for Pharpay_10:
(Start: 4 @2877 has 26 MA's), (6, 2916), (13, 3006), (14, 3021), (16, 3048), (20, 3084), (21, 3102), (26, 3141),

Gene: PhunaPhoke_10 Start: 2850, Stop: 3125, Start Num: 4
Candidate Starts for PhunaPhoke_10:
(Start: 4 @2850 has 26 MA's), (6, 2889), (13, 2979), (14, 2994), (16, 3021), (20, 3057), (21, 3075), (26, 3114),

Gene: Potty_10 Start: 2855, Stop: 3130, Start Num: 4
Candidate Starts for Potty_10:

(Start: 4 @2855 has 26 MA's), (6, 2894), (13, 2984), (14, 2999), (16, 3026), (20, 3062), (21, 3080), (26, 3119),

Gene: Poultress_9 Start: 2629, Stop: 2904, Start Num: 4
Candidate Starts for Poultress_9:
(Start: 4 @2629 has 26 MA's), (6, 2668), (13, 2758), (14, 2773), (16, 2800), (20, 2836), (21, 2854), (26, 2893),

Gene: Rachella_10 Start: 2861, Stop: 3136, Start Num: 4
Candidate Starts for Rachella_10:
(Start: 4 @2861 has 26 MA's), (6, 2900), (13, 2990), (14, 3005), (16, 3032), (20, 3068), (21, 3086), (26, 3125),

Gene: Rasovi_2 Start: 600, Stop: 872, Start Num: 5
Candidate Starts for Rasovi_2:
(Start: 5 @600 has 3 MA's), (8, 654), (13, 720), (15, 738), (18, 792), (24, 837),

Gene: SilentWarrior_9 Start: 2606, Stop: 2872, Start Num: 4
Candidate Starts for SilentWarrior_9:
(Start: 4 @2606 has 26 MA's), (7, 2660), (9, 2681), (11, 2717), (17, 2786), (18, 2789), (20, 2795),

Gene: Snakehole_11 Start: 2685, Stop: 2960, Start Num: 4
Candidate Starts for Snakehole_11:
(1, 2607), (2, 2673), (Start: 4 @2685 has 26 MA's), (6, 2724), (13, 2814), (14, 2829), (16, 2856), (20, 2892), (21, 2910), (26, 2949),

Gene: Tedro_10 Start: 2862, Stop: 3137, Start Num: 4
Candidate Starts for Tedro_10:
(3, 2859), (Start: 4 @2862 has 26 MA's), (6, 2901), (13, 2991), (14, 3006), (16, 3033), (20, 3069), (21, 3087), (26, 3126),

Gene: Tongui_9 Start: 2688, Stop: 2963, Start Num: 4
Candidate Starts for Tongui_9:
(1, 2610), (Start: 4 @2688 has 26 MA's), (6, 2727), (13, 2817), (14, 2832), (16, 2859), (20, 2895), (21, 2913), (26, 2952),