

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 331172 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331172 has 25 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Greenbelt_8
- Track 2 : Wilkos_6
- Track 3 : Rooney_7, Gibson_7
- Track 4 : Lizz_7, ShakeNBake_7, PHTown_7
- Track 5 : Yara_6
- Track 6 : SassyC_9
- Track 7 : Virizion_8
- Track 8 : Wentworth_7
- Track 9 : Dryad_8
- Track 10 : Sparcetus_10, Bramble_10
- Track 11 : Ajin_10
- Track 12 : Rie18_10
- Track 13 : Kors_10, RikSengupta_10
- Track 14 : LordBart_10
- Track 15 : TinyMiny_10
- Track 16 : DannyDe_9
- Track 17 : Goodman_2, Johann_2
- Track 18 : Cicada_2
- Track 19 : Count_104

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

The start number called the most often in the published annotations is 5, it was called in 10 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ajin_10, Bramble_10, Count_104, DannyDe_9, Kors_10, LordBart_10, Rie18_10, RikSengupta_10, Sparcetus_10, TinyMiny_10,

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

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

• Cicada_2, Dryad_8, Gibson_7, Goodman_2, Greenbelt_8, Johann_2, Lizz_7, PHTown_7, Rooney_7, SassyC_9, ShakeNBake_7, Virizion_8, Wentworth_7, Wilkos_6, Yara_6,

Summary by start number:

Start 5:

- Found in 10 of 25 (40.0%) of genes in pham
- Manual Annotations of this start: 10 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ajin_10 (EF), Bramble_10 (EF), Count_104 (EL), DannyDe_9 (EF), Kors_10 (EF), LordBart_10 (EF), Rie18_10 (EF), RikSengupta_10 (EF), Sparcetus_10 (EF), TinyMiny_10 (EF),

Start 6:

- Found in 1 of 25 (4.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SassyC_9 (BN),

Start 7:

- Found in 3 of 25 (12.0%) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cicada_2 (EJ), Goodman_2 (EJ), Johann_2 (EJ),

Start 8:

- Found in 1 of 25 (4.0%) 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: Yara_6 (BN),

Start 9:

- Found in 9 of 25 (36.0%) of genes in pham
- Manual Annotations of this start: 7 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad_8 (BN), Gibson_7 (BN), Lizz_7 (BN), PHTown_7 (BN), Rooney_7 (BN), ShakeNBake_7 (BN), Virizion_8 (BN), Wentworth_7 (BN), Wilkos_6 (BN),

Start 10:

- Found in 1 of 25 (4.0%) 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: Greenbelt_8 (BN),

Summary by clusters:

There are 4 clusters represented in this pham: EL, BN, EF, EJ,

Info for manual annotations of cluster BN:

- Start number 8 was manually annotated 1 time for cluster BN.

- Start number 9 was manually annotated 7 times for cluster BN.
- Start number 10 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster EF:

- Start number 5 was manually annotated 9 times for cluster EF.

Info for manual annotations of cluster EJ:

- Start number 7 was manually annotated 3 times for cluster EJ.

Info for manual annotations of cluster EL:

- Start number 5 was manually annotated 1 time for cluster EL.

Gene Information:

Gene: Ajin_10 Start: 2721, Stop: 2960, Start Num: 5

Candidate Starts for Ajin_10:

(Start: 5 @2721 has 10 MA's), (17, 2808), (18, 2820), (19, 2823), (20, 2826), (25, 2865), (27, 2874), (38, 2949),

Gene: Bramble_10 Start: 2645, Stop: 2893, Start Num: 5

Candidate Starts for Bramble_10:

(4, 2633), (Start: 5 @2645 has 10 MA's), (15, 2735), (20, 2759), (21, 2762), (22, 2777), (27, 2807), (29, 2819), (33, 2855), (38, 2882),

Gene: Cicada_2 Start: 600, Stop: 875, Start Num: 7

Candidate Starts for Cicada_2:

(Start: 7 @600 has 3 MA's), (13, 672), (19, 708), (21, 714), (32, 801), (37, 831), (40, 846),

Gene: Count_104 Start: 65046, Stop: 65294, Start Num: 5

Candidate Starts for Count_104:

(Start: 5 @65046 has 10 MA's), (14, 65124), (19, 65157), (23, 65184), (24, 65190),

Gene: DannyDe_9 Start: 2605, Stop: 2853, Start Num: 5

Candidate Starts for DannyDe_9:

(Start: 5 @2605 has 10 MA's), (20, 2719), (21, 2722), (22, 2737), (27, 2767), (33, 2815), (38, 2842),

Gene: Dryad_8 Start: 2604, Stop: 2900, Start Num: 9

Candidate Starts for Dryad_8:

(3, 2553), (Start: 9 @2604 has 7 MA's), (18, 2709), (26, 2766), (27, 2769), (28, 2772), (29, 2781), (31, 2808), (32, 2811), (34, 2820), (36, 2838), (39, 2853), (41, 2868),

Gene: Gibson_7 Start: 2532, Stop: 2825, Start Num: 9

Candidate Starts for Gibson_7:

(2, 2460), (Start: 9 @2532 has 7 MA's), (16, 2622), (26, 2694), (27, 2697), (28, 2700), (29, 2709), (31, 2736), (32, 2739), (36, 2766), (39, 2781), (41, 2796),

Gene: Goodman_2 Start: 600, Stop: 875, Start Num: 7

Candidate Starts for Goodman_2:

(Start: 7 @600 has 3 MA's), (13, 672), (19, 708), (21, 714), (32, 801), (35, 822), (37, 831), (40, 846),

Gene: Greenbelt_8 Start: 2906, Stop: 3175, Start Num: 10

Candidate Starts for Greenbelt_8:

(1, 2708), (Start: 10 @2906 has 1 MA's), (14, 2975), (16, 2990), (21, 3014), (27, 3056), (34, 3107),

Gene: Johann_2 Start: 600, Stop: 875, Start Num: 7

Candidate Starts for Johann_2:

(Start: 7 @600 has 3 MA's), (13, 672), (19, 708), (21, 714), (32, 801), (35, 822), (37, 831), (40, 846),

Gene: Kors_10 Start: 2754, Stop: 2993, Start Num: 5

Candidate Starts for Kors_10:

(4, 2742), (Start: 5 @2754 has 10 MA's), (17, 2841), (18, 2853), (19, 2856), (20, 2859), (25, 2898), (27, 2907), (34, 2958), (38, 2982),

Gene: Lizz_7 Start: 2488, Stop: 2784, Start Num: 9

Candidate Starts for Lizz_7:

(Start: 9 @2488 has 7 MA's), (12, 2551), (16, 2578), (18, 2593), (26, 2650), (27, 2653), (28, 2656), (29, 2665), (30, 2677), (32, 2695), (36, 2722), (39, 2737), (41, 2752),

Gene: LordBart_10 Start: 2727, Stop: 2966, Start Num: 5

Candidate Starts for LordBart_10:

(Start: 5 @2727 has 10 MA's), (17, 2814), (18, 2826), (19, 2829), (20, 2832), (25, 2871), (27, 2880), (34, 2931), (38, 2955),

Gene: PHTowN_7 Start: 2488, Stop: 2784, Start Num: 9

Candidate Starts for PHTowN_7:

(Start: 9 @2488 has 7 MA's), (12, 2551), (16, 2578), (18, 2593), (26, 2650), (27, 2653), (28, 2656), (29, 2665), (30, 2677), (32, 2695), (36, 2722), (39, 2737), (41, 2752),

Gene: Rie18_10 Start: 2797, Stop: 3036, Start Num: 5

Candidate Starts for Rie18_10:

(Start: 5 @2797 has 10 MA's), (15, 2878), (20, 2902), (21, 2905), (26, 2947), (27, 2950), (38, 3025),

Gene: RikSengupta_10 Start: 2824, Stop: 3063, Start Num: 5

Candidate Starts for RikSengupta_10:

(4, 2812), (Start: 5 @2824 has 10 MA's), (17, 2911), (18, 2923), (19, 2926), (20, 2929), (25, 2968), (27, 2977), (34, 3028), (38, 3052),

Gene: Rooney_7 Start: 2532, Stop: 2825, Start Num: 9

Candidate Starts for Rooney_7:

(2, 2460), (Start: 9 @2532 has 7 MA's), (16, 2622), (26, 2694), (27, 2697), (28, 2700), (29, 2709), (31, 2736), (32, 2739), (36, 2766), (39, 2781), (41, 2796),

Gene: SassyC_9 Start: 2429, Stop: 2722, Start Num: 6

Candidate Starts for SassyC_9:

(6, 2429), (12, 2492), (17, 2522), (18, 2534), (26, 2591), (27, 2594), (29, 2606), (32, 2636), (39, 2678),

Gene: ShakeNBake_7 Start: 2488, Stop: 2784, Start Num: 9

Candidate Starts for ShakeNBake_7:

(Start: 9 @2488 has 7 MA's), (12, 2551), (16, 2578), (18, 2593), (26, 2650), (27, 2653), (28, 2656), (29, 2665), (30, 2677), (32, 2695), (36, 2722), (39, 2737), (41, 2752),

Gene: Sparcetus_10 Start: 2651, Stop: 2899, Start Num: 5

Candidate Starts for Sparcetus_10:

(4, 2639), (Start: 5 @2651 has 10 MA's), (15, 2741), (20, 2765), (21, 2768), (22, 2783), (27, 2813), (29, 2825), (33, 2861), (38, 2888),

Gene: TinyMiny_10 Start: 2658, Stop: 2897, Start Num: 5

Candidate Starts for TinyMiny_10:

(Start: 5 @2658 has 10 MA's), (17, 2745), (18, 2757), (19, 2760), (20, 2763), (25, 2802), (27, 2811), (34, 2862), (38, 2886),

Gene: Virizion_8 Start: 2532, Stop: 2825, Start Num: 9

Candidate Starts for Virizion_8:

(2, 2460), (Start: 9 @2532 has 7 MA's), (16, 2622), (18, 2637), (20, 2643), (26, 2694), (27, 2697), (28, 2700), (29, 2709), (31, 2736), (32, 2739), (36, 2766), (39, 2781), (41, 2796),

Gene: Wentworth_7 Start: 2277, Stop: 2573, Start Num: 9

Candidate Starts for Wentworth_7:

(3, 2226), (Start: 9 @2277 has 7 MA's), (12, 2340), (18, 2382), (26, 2439), (27, 2442), (29, 2454), (32, 2484), (39, 2526), (42, 2547),

Gene: Wilkos_6 Start: 2389, Stop: 2685, Start Num: 9

Candidate Starts for Wilkos_6:

(Start: 9 @2389 has 7 MA's), (12, 2452), (26, 2551), (27, 2554), (28, 2557), (29, 2566), (32, 2596), (36, 2623), (39, 2638),

Gene: Yara_6 Start: 2060, Stop: 2335, Start Num: 8

Candidate Starts for Yara_6:

(Start: 8 @2060 has 1 MA's), (11, 2078), (12, 2120), (13, 2129), (16, 2147), (32, 2261), (37, 2291),