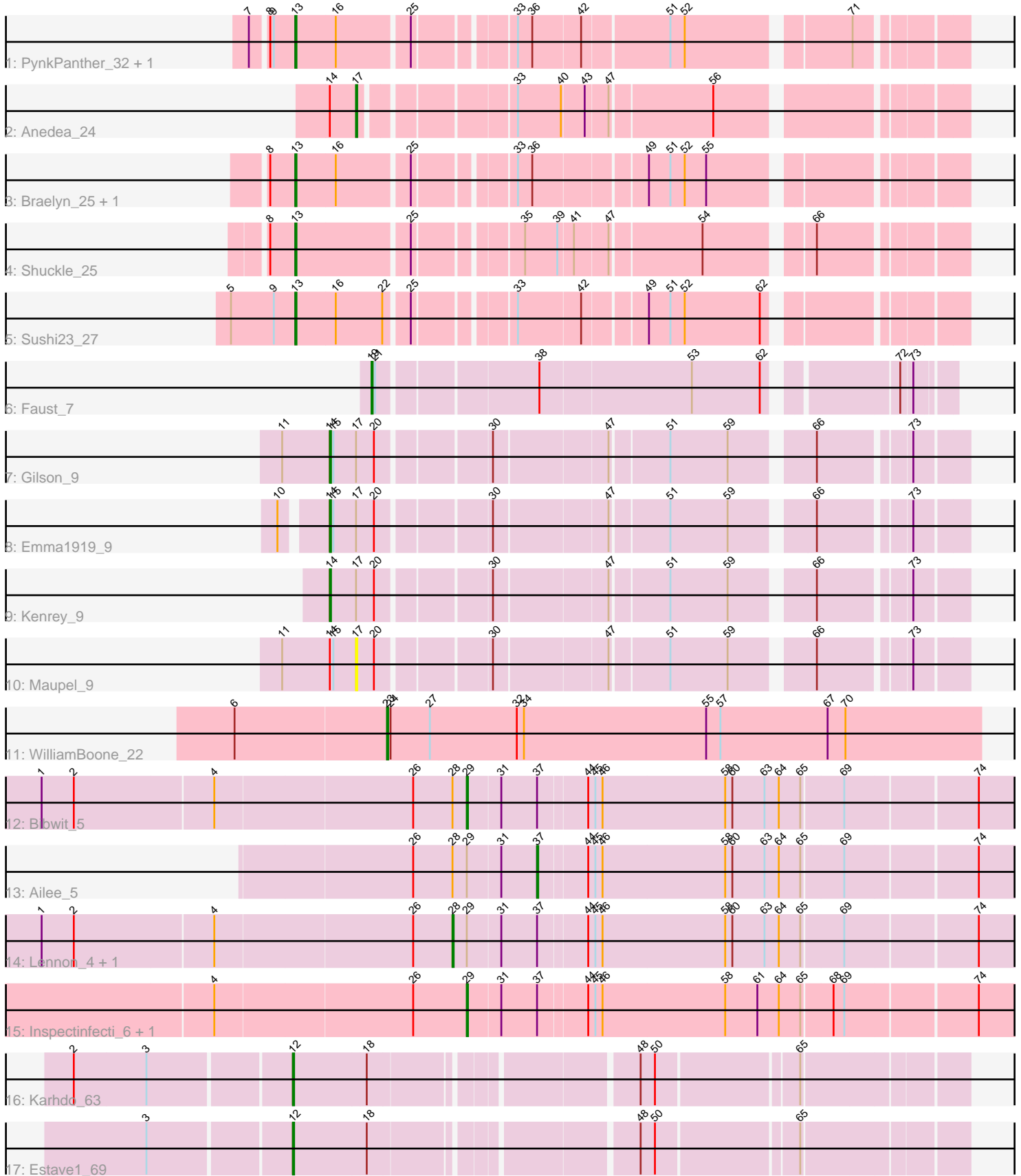


Pham 309304



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 309304 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309304 has 21 members, 2 are drafts.

Phages represented in each track:

- Track 1 : PynkPanther_32, Samisti12_24
- Track 2 : Anedea_24
- Track 3 : Braelyn_25, Navo_24
- Track 4 : Shuckle_25
- Track 5 : Sushi23_27
- Track 6 : Faust_7
- Track 7 : Gilson_9
- Track 8 : Emma1919_9
- Track 9 : Kenrey_9
- Track 10 : Maupel_9
- Track 11 : WilliamBoone_22
- Track 12 : Bibwit_5
- Track 13 : Ailee_5
- Track 14 : Lennon_4, Sitar_5
- Track 15 : Inspectinfecti_6, Hans_5
- Track 16 : Karhdo_63
- Track 17 : Estave1_69

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

The start number called the most often in the published annotations is 13, it was called in 5 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Braelyn_25, Navo_24, PynkPanther_32, Samisti12_24, Shuckle_25, Sushi23_27,

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

-

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

- Ailee_5, Anedea_24, Bibwit_5, Emma1919_9, Estave1_69, Faust_7, Gilson_9, Hans_5, Inspectinfecti_6, Karhdo_63, Kenrey_9, Lennon_4, Maupel_9, Sitar_5, WilliamBoone_22,

Summary by start number:

Start 12:

- Found in 2 of 21 (9.5%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Estave1_69 (F1), Karhdo_63 (F1),

Start 13:

- Found in 6 of 21 (28.6%) of genes in pham
- Manual Annotations of this start: 5 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Braelyn_25 (BE1), Navo_24 (BE1), PynkPanther_32 (BE1), Samisti12_24 (BE1), Shuckle_25 (BE1), Sushi23_27 (BE1),

Start 14:

- Found in 5 of 21 (23.8%) of genes in pham
- Manual Annotations of this start: 3 of 19
- Called 60.0% of time when present
- Phage (with cluster) where this start called: Emma1919_9 (BK1), Gilson_9 (BK1), Kenrey_9 (BK1),

Start 17:

- Found in 5 of 21 (23.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Anedea_24 (BE1), Maupel_9 (BK1),

Start 19:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Faust_7 (BK1),

Start 23:

- Found in 1 of 21 (4.8%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WilliamBoone_22 (CQ1),

Start 28:

- Found in 4 of 21 (19.0%) of genes in pham
- Manual Annotations of this start: 2 of 19
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Lennon_4 (DE1), Sitar_5 (DE1),

Start 29:

- Found in 6 of 21 (28.6%) of genes in pham
- Manual Annotations of this start: 3 of 19
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bibwit_5 (DE1), Hans_5 (DE2), Inspectinfecti_6 (DE2),

Start 37:

- Found in 6 of 21 (28.6%) of genes in pham
- Manual Annotations of this start: 1 of 19
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Ailee_5 (DE1),

Summary by clusters:

There are 6 clusters represented in this pham: F1, DE1, DE2, BK1, CQ1, BE1,

Info for manual annotations of cluster BE1:

- Start number 13 was manually annotated 5 times for cluster BE1.
- Start number 17 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BK1:

- Start number 14 was manually annotated 3 times for cluster BK1.
- Start number 19 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster CQ1:

- Start number 23 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster DE1:

- Start number 28 was manually annotated 2 times for cluster DE1.
- Start number 29 was manually annotated 1 time for cluster DE1.
- Start number 37 was manually annotated 1 time for cluster DE1.

Info for manual annotations of cluster DE2:

- Start number 29 was manually annotated 2 times for cluster DE2.

Info for manual annotations of cluster F1:

- Start number 12 was manually annotated 2 times for cluster F1.

Gene Information:

Gene: Ailee_5 Start: 2877, Stop: 3275, Start Num: 37

Candidate Starts for Ailee_5:

(26, 2775), (Start: 28 @2808 has 2 MA's), (Start: 29 @2820 has 3 MA's), (31, 2847), (Start: 37 @2877 has 1 MA's), (44, 2916), (45, 2922), (46, 2928), (58, 3030), (60, 3036), (63, 3063), (64, 3075), (65, 3093), (69, 3126), (74, 3231),

Gene: Anedea_24 Start: 11947, Stop: 11501, Start Num: 17

Candidate Starts for Anedea_24:

(Start: 14 @11968 has 3 MA's), (Start: 17 @11947 has 1 MA's), (33, 11836), (40, 11800), (43, 11782), (47, 11764), (56, 11683),

Gene: Bibwit_5 Start: 2818, Stop: 3273, Start Num: 29

Candidate Starts for Bibwit_5:

(1, 2470), (2, 2497), (4, 2611), (26, 2773), (Start: 28 @2806 has 2 MA's), (Start: 29 @2818 has 3 MA's), (31, 2845), (Start: 37 @2875 has 1 MA's), (44, 2914), (45, 2920), (46, 2926), (58, 3028), (60, 3034), (63, 3061), (64, 3073), (65, 3091), (69, 3124), (74, 3229),

Gene: Braelyn_25 Start: 12292, Stop: 11798, Start Num: 13

Candidate Starts for Braelyn_25:

(8, 12313), (Start: 13 @12292 has 5 MA's), (16, 12259), (25, 12202), (33, 12130), (36, 12118), (49, 12031), (51, 12013), (52, 12001), (55, 11983),

Gene: Emma1919_9 Start: 3441, Stop: 2968, Start Num: 14

Candidate Starts for Emma1919_9:

(10, 3474), (Start: 14 @3441 has 3 MA's), (15, 3438), (Start: 17 @3420 has 1 MA's), (20, 3405), (30, 3321), (47, 3231), (51, 3186), (59, 3138), (66, 3078), (73, 3009),

Gene: Estave1_69 Start: 44367, Stop: 44876, Start Num: 12

Candidate Starts for Estave1_69:

(3, 44253), (Start: 12 @44367 has 2 MA's), (18, 44427), (48, 44625), (50, 44637), (65, 44748),

Gene: Faust_7 Start: 2866, Stop: 2429, Start Num: 19

Candidate Starts for Faust_7:

(Start: 19 @2866 has 1 MA's), (21, 2863), (38, 2740), (53, 2617), (62, 2560), (72, 2467), (73, 2458),

Gene: Gilson_9 Start: 3438, Stop: 2965, Start Num: 14

Candidate Starts for Gilson_9:

(11, 3477), (Start: 14 @3438 has 3 MA's), (15, 3435), (Start: 17 @3417 has 1 MA's), (20, 3402), (30, 3318), (47, 3228), (51, 3183), (59, 3135), (66, 3075), (73, 3006),

Gene: Hans_5 Start: 3106, Stop: 3561, Start Num: 29

Candidate Starts for Hans_5:

(4, 2899), (26, 3061), (Start: 29 @3106 has 3 MA's), (31, 3133), (Start: 37 @3163 has 1 MA's), (44, 3202), (45, 3208), (46, 3214), (58, 3316), (61, 3343), (64, 3361), (65, 3379), (68, 3403), (69, 3412), (74, 3517),

Gene: Inspectinfecti_6 Start: 3176, Stop: 3631, Start Num: 29

Candidate Starts for Inspectinfecti_6:

(4, 2969), (26, 3131), (Start: 29 @3176 has 3 MA's), (31, 3203), (Start: 37 @3233 has 1 MA's), (44, 3272), (45, 3278), (46, 3284), (58, 3386), (61, 3413), (64, 3431), (65, 3449), (68, 3473), (69, 3482), (74, 3587),

Gene: Karhdo_63 Start: 42799, Stop: 43308, Start Num: 12

Candidate Starts for Karhdo_63:

(2, 42625), (3, 42685), (Start: 12 @42799 has 2 MA's), (18, 42859), (48, 43057), (50, 43069), (65, 43180),

Gene: Kenrey_9 Start: 3499, Stop: 3026, Start Num: 14

Candidate Starts for Kenrey_9:

(Start: 14 @3499 has 3 MA's), (Start: 17 @3478 has 1 MA's), (20, 3463), (30, 3379), (47, 3289), (51, 3244), (59, 3196), (66, 3136), (73, 3067),

Gene: Lennon_4 Start: 2807, Stop: 3274, Start Num: 28

Candidate Starts for Lennon_4:

(1, 2471), (2, 2498), (4, 2612), (26, 2774), (Start: 28 @2807 has 2 MA's), (Start: 29 @2819 has 3 MA's), (31, 2846), (Start: 37 @2876 has 1 MA's), (44, 2915), (45, 2921), (46, 2927), (58, 3029), (60, 3035), (63, 3062), (64, 3074), (65, 3092), (69, 3125), (74, 3230),

Gene: Maupel_9 Start: 3417, Stop: 2965, Start Num: 17

Candidate Starts for Maupel_9:

(11, 3477), (Start: 14 @3438 has 3 MA's), (15, 3435), (Start: 17 @3417 has 1 MA's), (20, 3402), (30, 3318), (47, 3228), (51, 3183), (59, 3135), (66, 3075), (73, 3006),

Gene: Navo_24 Start: 12055, Stop: 11561, Start Num: 13

Candidate Starts for Navo_24:

(8, 12076), (Start: 13 @12055 has 5 MA's), (16, 12022), (25, 11965), (33, 11893), (36, 11881), (49, 11794), (51, 11776), (52, 11764), (55, 11746),

Gene: PynkPanther_32 Start: 12315, Stop: 11818, Start Num: 13

Candidate Starts for PynkPanther_32:

(7, 12348), (8, 12336), (9, 12333), (Start: 13 @12315 has 5 MA's), (16, 12282), (25, 12225), (33, 12153), (36, 12141), (42, 12102), (51, 12033), (52, 12021), (71, 11898),

Gene: Samisti12_24 Start: 12125, Stop: 11628, Start Num: 13

Candidate Starts for Samisti12_24:

(7, 12158), (8, 12146), (9, 12143), (Start: 13 @12125 has 5 MA's), (16, 12092), (25, 12035), (33, 11963), (36, 11951), (42, 11912), (51, 11843), (52, 11831), (71, 11708),

Gene: Shuckle_25 Start: 12680, Stop: 12186, Start Num: 13

Candidate Starts for Shuckle_25:

(8, 12701), (Start: 13 @12680 has 5 MA's), (25, 12590), (35, 12512), (39, 12485), (41, 12473), (47, 12446), (54, 12374), (66, 12296),

Gene: Sitar_5 Start: 2807, Stop: 3274, Start Num: 28

Candidate Starts for Sitar_5:

(1, 2471), (2, 2498), (4, 2612), (26, 2774), (Start: 28 @2807 has 2 MA's), (Start: 29 @2819 has 3 MA's), (31, 2846), (Start: 37 @2876 has 1 MA's), (44, 2915), (45, 2921), (46, 2927), (58, 3029), (60, 3035), (63, 3062), (64, 3074), (65, 3092), (69, 3125), (74, 3230),

Gene: Sushi23_27 Start: 12530, Stop: 12036, Start Num: 13

Candidate Starts for Sushi23_27:

(5, 12584), (9, 12548), (Start: 13 @12530 has 5 MA's), (16, 12497), (22, 12458), (25, 12440), (33, 12368), (42, 12317), (49, 12269), (51, 12251), (52, 12239), (62, 12176),

Gene: WilliamBoone_22 Start: 5979, Stop: 6476, Start Num: 23

Candidate Starts for WilliamBoone_22:

(6, 5853), (Start: 23 @5979 has 1 MA's), (24, 5982), (27, 6015), (32, 6087), (34, 6093), (55, 6246), (57, 6258), (67, 6348), (70, 6363),