



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 2939 Report

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

Pham number 2939 has 34 members, 4 are drafts.

Phages represented in each track:

- Track 1 : ClearAsMud_5, Honeyfin_6, Crisis_5, Cranjis_5
- Track 2 : Ramiel05_5, Kowalski_5, Antares_6, Shotgun_5, Hermeonysus_5, PiperSansNom_6, BrazzalePHS_5, Jollipop_5, Savannah_5, CrazyRich_5, Phorgeous_5, Onika_5
- Track 3 : Pulchra_6
- Track 4 : Phrancesco_6, Busephilis_6, EarickHC_5, Piperis_5, Paschalis_5, Selwyn23_6, KaiHaiDragon_5, LittleFortune_6, Jefe_6, Yeti_5
- Track 5 : PierreOrion_5
- Track 6 : Ganandorf_5, Scumberland_6, NoodlelyBoi_5
- Track 7 : Smarties_8, Ariadne_8
- Track 8 : Quhwah_6

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

The start number called the most often in the published annotations is 3, it was called in 30 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antares_6, Ariadne_8, BrazzalePHS_5, Busephilis_6, ClearAsMud_5, Cranjis_5, CrazyRich_5, Crisis_5, EarickHC_5, Ganandorf_5, Hermeonysus_5, Honeyfin_6, Jefe_6, Jollipop_5, KaiHaiDragon_5, Kowalski_5, LittleFortune_6, NoodlelyBoi_5, Onika_5, Paschalis_5, Phorgeous_5, Phrancesco_6, PiperSansNom_6, Piperis_5, Pulchra_6, Quhwah_6, Ramiel05_5, Savannah_5, Scumberland_6, Selwyn23_6, Shotgun_5, Smarties_8, Yeti_5,

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

- PierreOrion_5,

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

-

Summary by start number:

Start 3:

- Found in 34 of 34 (100.0%) of genes in pham
- Manual Annotations of this start: 30 of 30
- Called 97.1% of time when present
- Phage (with cluster) where this start called: Antares_6 (EC), Ariadne_8 (EC), BrazzalePHS_5 (EC), Busephilis_6 (EC), ClearAsMud_5 (EC), Cranjis_5 (EC), CrazyRich_5 (EC), Crisis_5 (EC), EarickHC_5 (EC), Ganandorf_5 (EC), Hermeonysus_5 (EC), Honeyfin_6 (EC), Jefe_6 (EC), Jollipop_5 (EC), KaiHaiDragon_5 (EC), Kowalski_5 (EC), LittleFortune_6 (EC), NoodlelyBoi_5 (EC), Onika_5 (EC), Paschalis_5 (EC), Phorgeous_5 (EC), Phrancesco_6 (EC), PiperSansNom_6 (EC), Piperis_5 (EC), Pulchra_6 (EC), Quhwah_6 (EC), Ramiel05_5 (EC), Savannah_5 (EC), Scumberland_6 (EC), Selwyn23_6 (EC), Shotgun_5 (EC), Smarties_8 (EC), Yeti_5 (EC),

Start 4:

- Found in 33 of 34 (97.1%) of genes in pham
- No Manual Annotations of this start.
- Called 3.0% of time when present
- Phage (with cluster) where this start called: PierreOrion_5 (EC),

Summary by clusters:

There is one cluster represented in this pham: EC

Info for manual annotations of cluster EC:

- Start number 3 was manually annotated 30 times for cluster EC.

Gene Information:

Gene: Antares_6 Start: 3050, Stop: 3457, Start Num: 3

Candidate Starts for Antares_6:

(1, 2939), (2, 2972), (Start: 3 @3050 has 30 MA's), (4, 3059), (10, 3389),

Gene: Ariadne_8 Start: 3549, Stop: 3935, Start Num: 3

Candidate Starts for Ariadne_8:

(Start: 3 @3549 has 30 MA's), (4, 3561), (6, 3807), (7, 3816), (8, 3840), (9, 3855), (11, 3906), (12, 3918),

Gene: BrazzalePHS_5 Start: 2838, Stop: 3245, Start Num: 3

Candidate Starts for BrazzalePHS_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (10, 3177),

Gene: Busephilis_6 Start: 3050, Stop: 3466, Start Num: 3

Candidate Starts for Busephilis_6:

(1, 2939), (2, 2972), (Start: 3 @3050 has 30 MA's), (4, 3059), (7, 3338), (10, 3398),

Gene: ClearAsMud_5 Start: 3107, Stop: 3523, Start Num: 3

Candidate Starts for ClearAsMud_5:

(1, 2996), (2, 3029), (Start: 3 @3107 has 30 MA's), (4, 3116), (5, 3164), (7, 3395), (10, 3455),

Gene: Cranjis_5 Start: 2838, Stop: 3254, Start Num: 3

Candidate Starts for Cranjis_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (5, 2895), (7, 3126), (10, 3186),

Gene: CrazyRich_5 Start: 2838, Stop: 3245, Start Num: 3

Candidate Starts for CrazyRich_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (10, 3177),

Gene: Crisis_5 Start: 2838, Stop: 3254, Start Num: 3

Candidate Starts for Crisis_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (5, 2895), (7, 3126), (10, 3186),

Gene: EarickHC_5 Start: 2838, Stop: 3254, Start Num: 3

Candidate Starts for EarickHC_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (7, 3126), (10, 3186),

Gene: Ganandorf_5 Start: 3057, Stop: 3473, Start Num: 3

Candidate Starts for Ganandorf_5:

(2, 2979), (Start: 3 @3057 has 30 MA's), (4, 3066), (7, 3345), (10, 3405),

Gene: Hermeonysus_5 Start: 2838, Stop: 3245, Start Num: 3

Candidate Starts for Hermeonysus_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (10, 3177),

Gene: Honeyfin_6 Start: 3056, Stop: 3463, Start Num: 3

Candidate Starts for Honeyfin_6:

(1, 2945), (2, 2978), (Start: 3 @3056 has 30 MA's), (4, 3065), (5, 3113), (7, 3335), (10, 3395),

Gene: Jefe_6 Start: 3050, Stop: 3457, Start Num: 3

Candidate Starts for Jefe_6:

(1, 2939), (2, 2972), (Start: 3 @3050 has 30 MA's), (4, 3059), (7, 3329), (10, 3389),

Gene: Jollipop_5 Start: 2838, Stop: 3245, Start Num: 3

Candidate Starts for Jollipop_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (10, 3177),

Gene: KaiHaiDragon_5 Start: 2838, Stop: 3254, Start Num: 3

Candidate Starts for KaiHaiDragon_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (7, 3126), (10, 3186),

Gene: Kowalski_5 Start: 2838, Stop: 3245, Start Num: 3

Candidate Starts for Kowalski_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (10, 3177),

Gene: LittleFortune_6 Start: 3056, Stop: 3463, Start Num: 3

Candidate Starts for LittleFortune_6:

(1, 2945), (2, 2978), (Start: 3 @3056 has 30 MA's), (4, 3065), (7, 3335), (10, 3395),

Gene: NoodlelyBoi_5 Start: 2841, Stop: 3257, Start Num: 3

Candidate Starts for NoodlelyBoi_5:

(2, 2763), (Start: 3 @2841 has 30 MA's), (4, 2850), (7, 3129), (10, 3189),

Gene: Onika_5 Start: 2838, Stop: 3245, Start Num: 3

Candidate Starts for Onika_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (10, 3177),

Gene: Paschalis_5 Start: 2838, Stop: 3254, Start Num: 3

Candidate Starts for Paschalis_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (7, 3126), (10, 3186),

Gene: Phorgeous_5 Start: 2838, Stop: 3254, Start Num: 3

Candidate Starts for Phorgeous_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (10, 3186),

Gene: Phrancesco_6 Start: 3056, Stop: 3472, Start Num: 3

Candidate Starts for Phrancesco_6:

(1, 2945), (2, 2978), (Start: 3 @3056 has 30 MA's), (4, 3065), (7, 3344), (10, 3404),

Gene: PierreOrion_5 Start: 2847, Stop: 3254, Start Num: 4

Candidate Starts for PierreOrion_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (7, 3126), (10, 3186),

Gene: PiperSansNom_6 Start: 3151, Stop: 3558, Start Num: 3

Candidate Starts for PiperSansNom_6:

(1, 3040), (2, 3073), (Start: 3 @3151 has 30 MA's), (4, 3160), (10, 3490),

Gene: Piperis_5 Start: 2838, Stop: 3254, Start Num: 3

Candidate Starts for Piperis_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (7, 3126), (10, 3186),

Gene: Pulchra_6 Start: 3068, Stop: 3484, Start Num: 3

Candidate Starts for Pulchra_6:

(1, 2957), (2, 2990), (Start: 3 @3068 has 30 MA's), (5, 3125), (7, 3356), (10, 3416),

Gene: Quhwah_6 Start: 3050, Stop: 3466, Start Num: 3

Candidate Starts for Quhwah_6:

(1, 2939), (2, 2972), (Start: 3 @3050 has 30 MA's), (4, 3059), (5, 3107), (10, 3398),

Gene: Ramiel05_5 Start: 2838, Stop: 3245, Start Num: 3

Candidate Starts for Ramiel05_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (10, 3177),

Gene: Savannah_5 Start: 2862, Stop: 3269, Start Num: 3

Candidate Starts for Savannah_5:

(1, 2751), (2, 2784), (Start: 3 @2862 has 30 MA's), (4, 2871), (10, 3201),

Gene: Scumberland_6 Start: 3056, Stop: 3472, Start Num: 3

Candidate Starts for Scumberland_6:

(2, 2978), (Start: 3 @3056 has 30 MA's), (4, 3065), (7, 3344), (10, 3404),

Gene: Selwyn23_6 Start: 3068, Stop: 3484, Start Num: 3

Candidate Starts for Selwyn23_6:

(1, 2957), (2, 2990), (Start: 3 @3068 has 30 MA's), (4, 3077), (7, 3356), (10, 3416),

Gene: Shotgun_5 Start: 2838, Stop: 3245, Start Num: 3

Candidate Starts for Shotgun_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (10, 3177),

Gene: Smarties_8 Start: 3549, Stop: 3935, Start Num: 3

Candidate Starts for Smarties_8:

(Start: 3 @3549 has 30 MA's), (4, 3561), (6, 3807), (7, 3816), (8, 3840), (9, 3855), (11, 3906), (12, 3918),

Gene: Yeti_5 Start: 2838, Stop: 3254, Start Num: 3

Candidate Starts for Yeti_5:

(1, 2727), (2, 2760), (Start: 3 @2838 has 30 MA's), (4, 2847), (7, 3126), (10, 3186),