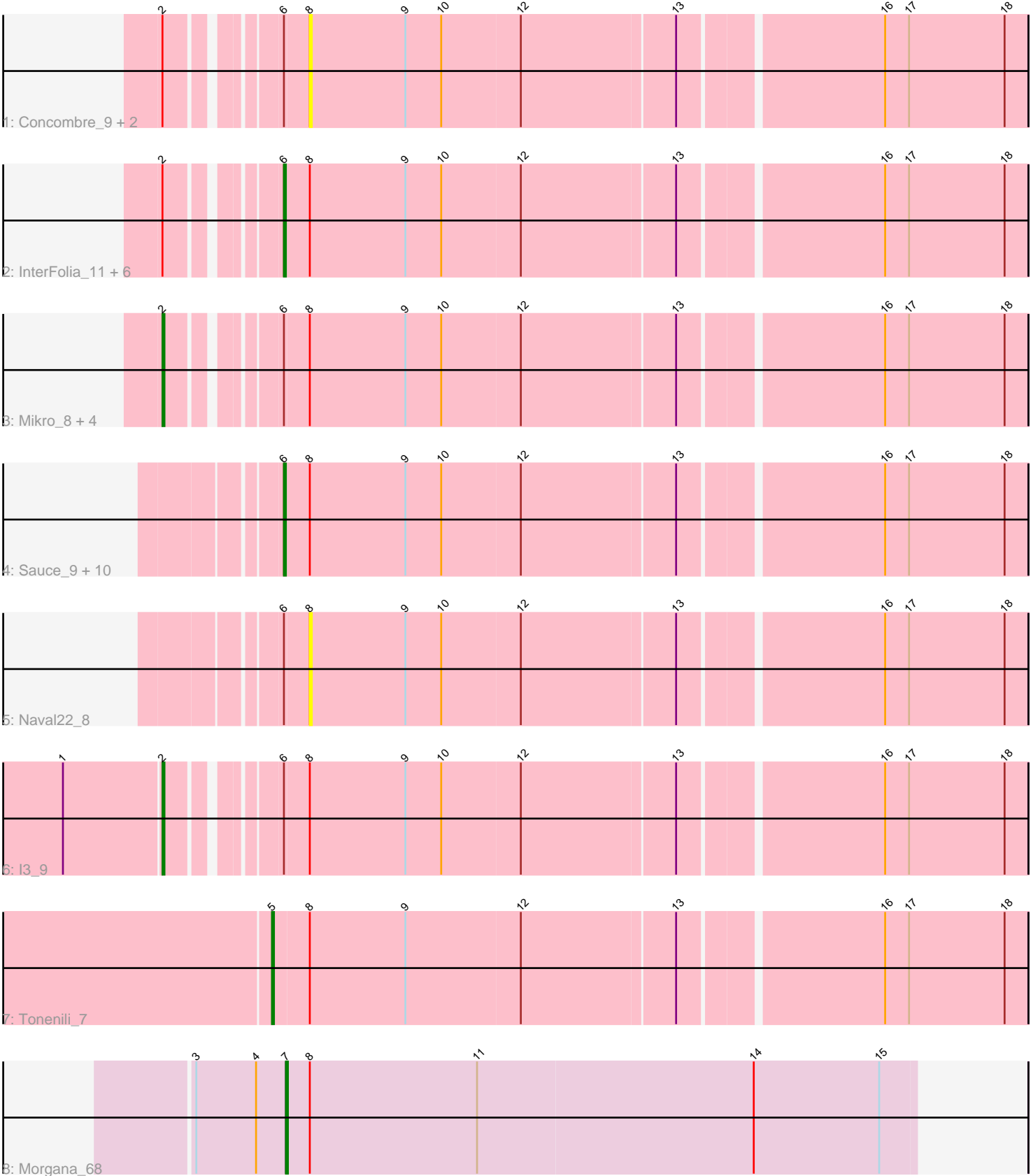


Pham 86276



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 86276 Report

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

Pham number 86276 has 30 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Concombre_9, JayJay_9, LordLeafolot_11
- Track 2 : InterFolia_11, Sebata_10, Kamryn_8, FrayBell_11, NuevoMundo_10, LinStu_10, Dandelion_11
- Track 3 : Mikro_8, StephanieG_10, Astraea_10, Pier_11, NoodleTree_8
- Track 4 : Sauce_9, Pio_9, BigCity_11, Bxz1_8, Spud_9, Grasshills_11, MoMoMixon_8, Specks_11, Bigswole_7, Nidhogg_8, EggyFarm_11
- Track 5 : Naval22_8
- Track 6 : I3_9
- Track 7 : Tonenili_7
- Track 8 : Morgana_68

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

The start number called the most often in the published annotations is 6, it was called in 15 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BigCity_11, Bigswole_7, Bxz1_8, Dandelion_11, EggyFarm_11, FrayBell_11, Grasshills_11, InterFolia_11, Kamryn_8, LinStu_10, MoMoMixon_8, Nidhogg_8, NuevoMundo_10, Pio_9, Sauce_9, Sebata_10, Specks_11, Spud_9,

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

- Astraea_10, Concombre_9, I3_9, JayJay_9, LordLeafolot_11, Mikro_8, Naval22_8, NoodleTree_8, Pier_11, StephanieG_10,

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

- Morgana_68, Tonenili_7,

Summary by start number:

Start 2:

- Found in 16 of 30 (53.3%) of genes in pham
- Manual Annotations of this start: 6 of 23
- Called 37.5% of time when present

- Phage (with cluster) where this start called: Astraea_10 (C1), l3_9 (C1), Mikro_8 (C1), NoodleTree_8 (C1), Pier_11 (C1), StephanieG_10 (C1),

Start 5:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tonenili_7 (C1),

Start 6:

- Found in 28 of 30 (93.3%) of genes in pham
- Manual Annotations of this start: 15 of 23
- Called 64.3% of time when present
- Phage (with cluster) where this start called: BigCity_11 (C1), Bigswole_7 (C1), Bxz1_8 (C1), Dandelion_11 (C1), EggyFarm_11 (C1), FrayBell_11 (C1), Grasshills_11 (C1), InterFolia_11 (C1), Kamryn_8 (C1), LinStu_10 (C1), MoMoMixon_8 (C1), Nidhogg_8 (C1), NuevoMundo_10 (C1), Pio_9 (C1), Sauce_9 (C1), Sebata_10 (C1), Specks_11 (C1), Spud_9 (C1),

Start 7:

- Found in 1 of 30 (3.3%) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Morgana_68 (DZ),

Start 8:

- Found in 30 of 30 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 13.3% of time when present
- Phage (with cluster) where this start called: Concombre_9 (C1), JayJay_9 (C1), LordLeafolot_11 (C1), Naval22_8 (C1),

Summary by clusters:

There are 2 clusters represented in this pham: C1, DZ,

Info for manual annotations of cluster C1:

- Start number 2 was manually annotated 6 times for cluster C1.
- Start number 5 was manually annotated 1 time for cluster C1.
- Start number 6 was manually annotated 15 times for cluster C1.

Info for manual annotations of cluster DZ:

- Start number 7 was manually annotated 1 time for cluster DZ.

Gene Information:

Gene: Astraea_10 Start: 2927, Stop: 3331, Start Num: 2

Candidate Starts for Astraea_10:

(Start: 2 @2927 has 6 MA's), (Start: 6 @2972 has 15 MA's), (8, 2984), (9, 3032), (10, 3050), (12, 3089), (13, 3164), (16, 3260), (17, 3272), (18, 3320),

Gene: BigCity_11 Start: 4212, Stop: 4571, Start Num: 6

Candidate Starts for BigCity_11:

(Start: 6 @4212 has 15 MA's), (8, 4224), (9, 4272), (10, 4290), (12, 4329), (13, 4404), (16, 4500), (17, 4512), (18, 4560),

Gene: Bigswole_7 Start: 2564, Stop: 2923, Start Num: 6

Candidate Starts for Bigswole_7:

(Start: 6 @2564 has 15 MA's), (8, 2576), (9, 2624), (10, 2642), (12, 2681), (13, 2756), (16, 2852), (17, 2864), (18, 2912),

Gene: Bxz1_8 Start: 2662, Stop: 3021, Start Num: 6

Candidate Starts for Bxz1_8:

(Start: 6 @2662 has 15 MA's), (8, 2674), (9, 2722), (10, 2740), (12, 2779), (13, 2854), (16, 2950), (17, 2962), (18, 3010),

Gene: Concombre_9 Start: 2652, Stop: 2999, Start Num: 8

Candidate Starts for Concombre_9:

(Start: 2 @2595 has 6 MA's), (Start: 6 @2640 has 15 MA's), (8, 2652), (9, 2700), (10, 2718), (12, 2757), (13, 2832), (16, 2928), (17, 2940), (18, 2988),

Gene: Dandelion_11 Start: 3641, Stop: 4000, Start Num: 6

Candidate Starts for Dandelion_11:

(Start: 2 @3596 has 6 MA's), (Start: 6 @3641 has 15 MA's), (8, 3653), (9, 3701), (10, 3719), (12, 3758), (13, 3833), (16, 3929), (17, 3941), (18, 3989),

Gene: EggyFarm_11 Start: 4212, Stop: 4571, Start Num: 6

Candidate Starts for EggyFarm_11:

(Start: 6 @4212 has 15 MA's), (8, 4224), (9, 4272), (10, 4290), (12, 4329), (13, 4404), (16, 4500), (17, 4512), (18, 4560),

Gene: FrayBell_11 Start: 3463, Stop: 3822, Start Num: 6

Candidate Starts for FrayBell_11:

(Start: 2 @3418 has 6 MA's), (Start: 6 @3463 has 15 MA's), (8, 3475), (9, 3523), (10, 3541), (12, 3580), (13, 3655), (16, 3751), (17, 3763), (18, 3811),

Gene: Grasshills_11 Start: 4212, Stop: 4571, Start Num: 6

Candidate Starts for Grasshills_11:

(Start: 6 @4212 has 15 MA's), (8, 4224), (9, 4272), (10, 4290), (12, 4329), (13, 4404), (16, 4500), (17, 4512), (18, 4560),

Gene: I3_9 Start: 3325, Stop: 3729, Start Num: 2

Candidate Starts for I3_9:

(1, 3277), (Start: 2 @3325 has 6 MA's), (Start: 6 @3370 has 15 MA's), (8, 3382), (9, 3430), (10, 3448), (12, 3487), (13, 3562), (16, 3658), (17, 3670), (18, 3718),

Gene: InterFolia_11 Start: 3462, Stop: 3821, Start Num: 6

Candidate Starts for InterFolia_11:

(Start: 2 @3417 has 6 MA's), (Start: 6 @3462 has 15 MA's), (8, 3474), (9, 3522), (10, 3540), (12, 3579), (13, 3654), (16, 3750), (17, 3762), (18, 3810),

Gene: JayJay_9 Start: 3003, Stop: 3350, Start Num: 8

Candidate Starts for JayJay_9:

(Start: 2 @2946 has 6 MA's), (Start: 6 @2991 has 15 MA's), (8, 3003), (9, 3051), (10, 3069), (12, 3108), (13, 3183), (16, 3279), (17, 3291), (18, 3339),

Gene: Kamryn_8 Start: 2621, Stop: 2980, Start Num: 6

Candidate Starts for Kamryn_8:

(Start: 2 @2576 has 6 MA's), (Start: 6 @2621 has 15 MA's), (8, 2633), (9, 2681), (10, 2699), (12, 2738), (13, 2813), (16, 2909), (17, 2921), (18, 2969),

Gene: LinStu_10 Start: 3990, Stop: 4349, Start Num: 6

Candidate Starts for LinStu_10:

(Start: 2 @3945 has 6 MA's), (Start: 6 @3990 has 15 MA's), (8, 4002), (9, 4050), (10, 4068), (12, 4107), (13, 4182), (16, 4278), (17, 4290), (18, 4338),

Gene: LordLeafolot_11 Start: 3474, Stop: 3821, Start Num: 8

Candidate Starts for LordLeafolot_11:

(Start: 2 @3417 has 6 MA's), (Start: 6 @3462 has 15 MA's), (8, 3474), (9, 3522), (10, 3540), (12, 3579), (13, 3654), (16, 3750), (17, 3762), (18, 3810),

Gene: Mikro_8 Start: 3575, Stop: 3979, Start Num: 2

Candidate Starts for Mikro_8:

(Start: 2 @3575 has 6 MA's), (Start: 6 @3620 has 15 MA's), (8, 3632), (9, 3680), (10, 3698), (12, 3737), (13, 3812), (16, 3908), (17, 3920), (18, 3968),

Gene: MoMoMixon_8 Start: 2897, Stop: 3256, Start Num: 6

Candidate Starts for MoMoMixon_8:

(Start: 6 @2897 has 15 MA's), (8, 2909), (9, 2957), (10, 2975), (12, 3014), (13, 3089), (16, 3185), (17, 3197), (18, 3245),

Gene: Morgana_68 Start: 45457, Stop: 45771, Start Num: 7

Candidate Starts for Morgana_68:

(3, 45412), (4, 45442), (Start: 7 @45457 has 1 MA's), (8, 45469), (11, 45553), (14, 45691), (15, 45754),

Gene: Naval22_8 Start: 2909, Stop: 3256, Start Num: 8

Candidate Starts for Naval22_8:

(Start: 6 @2897 has 15 MA's), (8, 2909), (9, 2957), (10, 2975), (12, 3014), (13, 3089), (16, 3185), (17, 3197), (18, 3245),

Gene: Nidhogg_8 Start: 2897, Stop: 3256, Start Num: 6

Candidate Starts for Nidhogg_8:

(Start: 6 @2897 has 15 MA's), (8, 2909), (9, 2957), (10, 2975), (12, 3014), (13, 3089), (16, 3185), (17, 3197), (18, 3245),

Gene: NoodleTree_8 Start: 2576, Stop: 2980, Start Num: 2

Candidate Starts for NoodleTree_8:

(Start: 2 @2576 has 6 MA's), (Start: 6 @2621 has 15 MA's), (8, 2633), (9, 2681), (10, 2699), (12, 2738), (13, 2813), (16, 2909), (17, 2921), (18, 2969),

Gene: NuevoMundo_10 Start: 3314, Stop: 3673, Start Num: 6

Candidate Starts for NuevoMundo_10:

(Start: 2 @3269 has 6 MA's), (Start: 6 @3314 has 15 MA's), (8, 3326), (9, 3374), (10, 3392), (12, 3431), (13, 3506), (16, 3602), (17, 3614), (18, 3662),

Gene: Pier_11 Start: 3272, Stop: 3676, Start Num: 2

Candidate Starts for Pier_11:

(Start: 2 @3272 has 6 MA's), (Start: 6 @3317 has 15 MA's), (8, 3329), (9, 3377), (10, 3395), (12, 3434), (13, 3509), (16, 3605), (17, 3617), (18, 3665),

Gene: Pio_9 Start: 3051, Stop: 3410, Start Num: 6

Candidate Starts for Pio_9:

(Start: 6 @3051 has 15 MA's), (8, 3063), (9, 3111), (10, 3129), (12, 3168), (13, 3243), (16, 3339), (17, 3351), (18, 3399),

Gene: Sauce_9 Start: 2901, Stop: 3260, Start Num: 6

Candidate Starts for Sauce_9:

(Start: 6 @2901 has 15 MA's), (8, 2913), (9, 2961), (10, 2979), (12, 3018), (13, 3093), (16, 3189), (17, 3201), (18, 3249),

Gene: Sebata_10 Start: 3990, Stop: 4349, Start Num: 6

Candidate Starts for Sebata_10:

(Start: 2 @3945 has 6 MA's), (Start: 6 @3990 has 15 MA's), (8, 4002), (9, 4050), (10, 4068), (12, 4107), (13, 4182), (16, 4278), (17, 4290), (18, 4338),

Gene: Specks_11 Start: 3503, Stop: 3862, Start Num: 6

Candidate Starts for Specks_11:

(Start: 6 @3503 has 15 MA's), (8, 3515), (9, 3563), (10, 3581), (12, 3620), (13, 3695), (16, 3791), (17, 3803), (18, 3851),

Gene: Spud_9 Start: 3051, Stop: 3410, Start Num: 6

Candidate Starts for Spud_9:

(Start: 6 @3051 has 15 MA's), (8, 3063), (9, 3111), (10, 3129), (12, 3168), (13, 3243), (16, 3339), (17, 3351), (18, 3399),

Gene: StephanieG_10 Start: 3272, Stop: 3676, Start Num: 2

Candidate Starts for StephanieG_10:

(Start: 2 @3272 has 6 MA's), (Start: 6 @3317 has 15 MA's), (8, 3329), (9, 3377), (10, 3395), (12, 3434), (13, 3509), (16, 3605), (17, 3617), (18, 3665),

Gene: Tonenili_7 Start: 2109, Stop: 2474, Start Num: 5

Candidate Starts for Tonenili_7:

(Start: 5 @2109 has 1 MA's), (8, 2127), (9, 2175), (12, 2232), (13, 2307), (16, 2403), (17, 2415), (18, 2463),