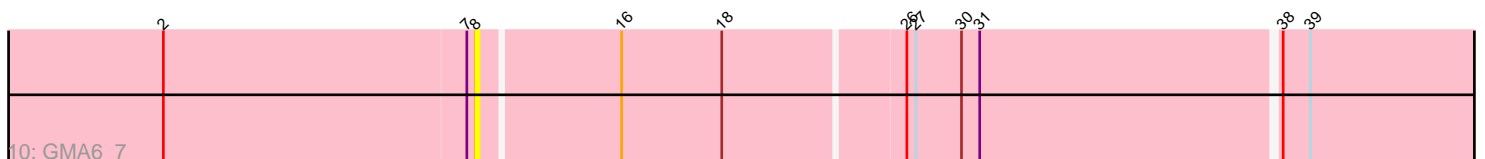
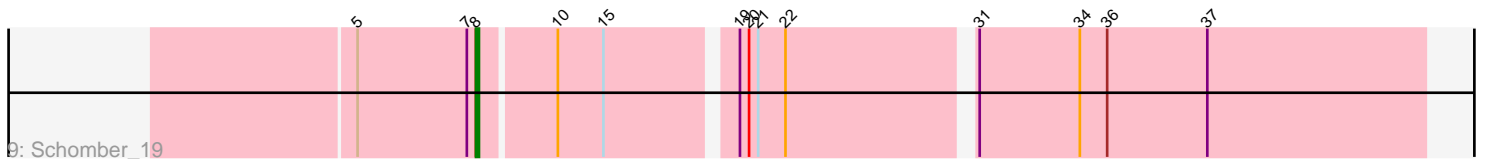
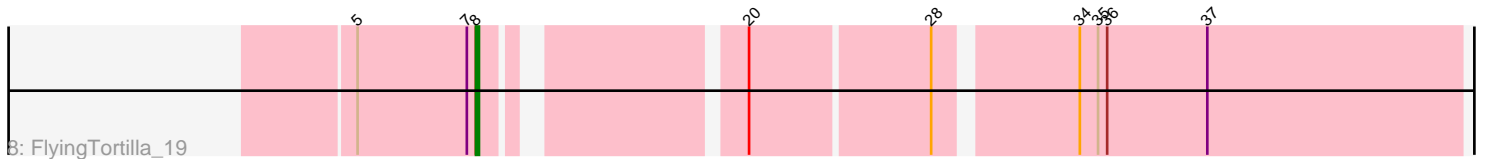
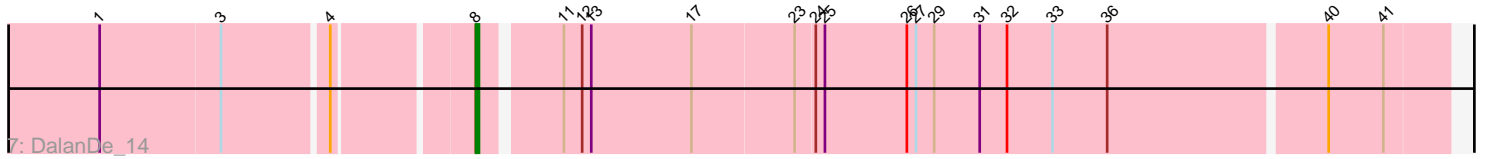
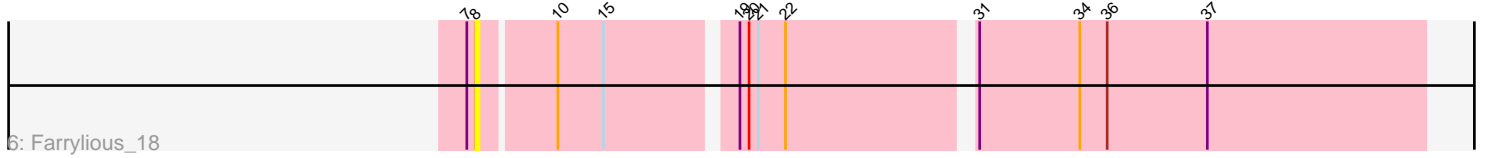
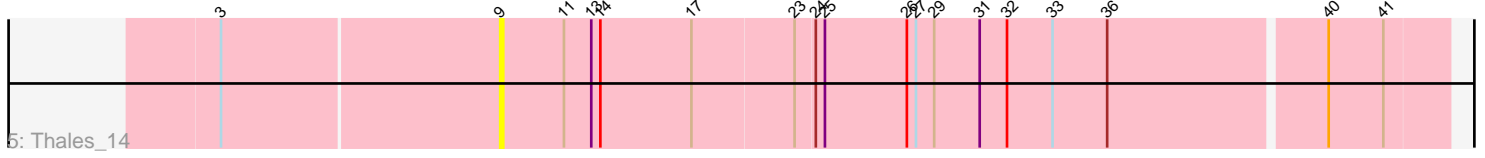
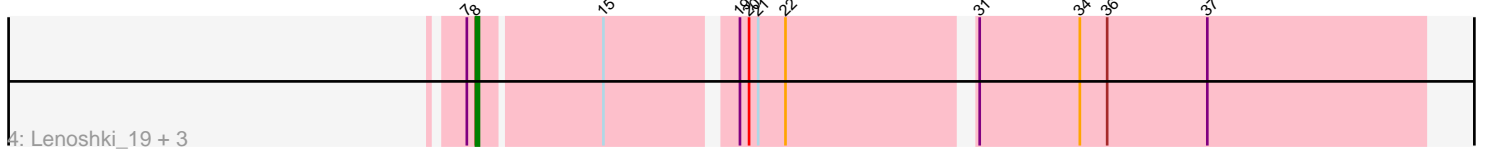
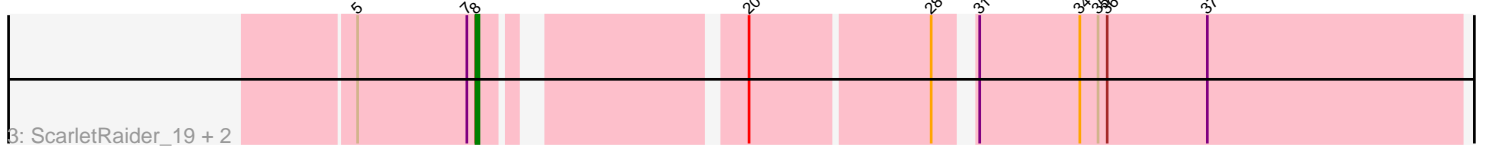
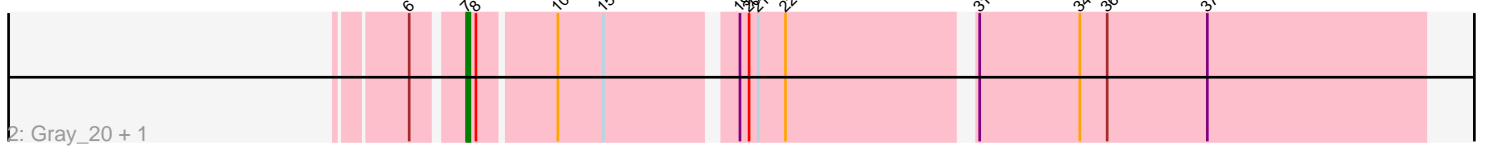
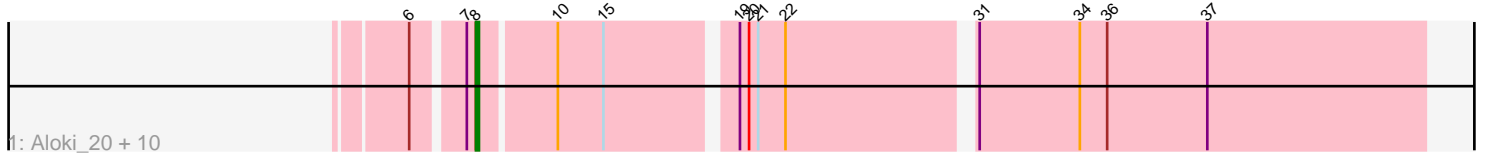


Pham 309120



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 309120 Report

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

Pham number 309120 has 26 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Aloki_20, Twin_19, Pakusa_19, MintFritos_19, Amoonguss_19, Hanem_20, Toneprano_19, Kabocha_21, Mikronejon_19, Argena_19, EmoNemo_19
- Track 2 : Gray_20, Chidiebere_20
- Track 3 : ScarletRaider_19, FruityLoops_18, UBSmoodge_21
- Track 4 : Lenoshki_19, ChisanaKitsune_16, Beted_19, Oogie_20
- Track 5 : Thales_14
- Track 6 : Farrylious_18
- Track 7 : DalanDe_14
- Track 8 : FlyingTortilla_19
- Track 9 : Schomber_19
- Track 10 : GMA6_7

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

The start number called the most often in the published annotations is 8, it was called in 10 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aloki_20, Amoonguss_19, Argena_19, Beted_19, ChisanaKitsune_16, DalanDe_14, EmoNemo_19, Farrylious_18, FlyingTortilla_19, FruityLoops_18, GMA6_7, Hanem_20, Kabocha_21, Lenoshki_19, Mikronejon_19, MintFritos_19, Oogie_20, Pakusa_19, ScarletRaider_19, Schomber_19, Toneprano_19, Twin_19, UBSmoodge_21,

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

- Chidiebere_20, Gray_20,

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

- Thales_14,

Summary by start number:

Start 7:

- Found in 24 of 26 (92.3%) of genes in pham

- Manual Annotations of this start: 2 of 12
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Chidiebere_20 (DQ), Gray_20 (DQ),

Start 8:

- Found in 25 of 26 (96.2%) of genes in pham
- Manual Annotations of this start: 10 of 12
- Called 92.0% of time when present
- Phage (with cluster) where this start called: Aloki_20 (DQ), Amoonguss_19 (DQ), Argena_19 (DQ), Beted_19 (DQ), ChisanaKitsune_16 (DQ), DalanDe_14 (DQ), EmoNemo_19 (DQ), Farrylious_18 (DQ), FlyingTortilla_19 (DQ), FruityLoops_18 (DQ), GMA6_7 (DQ), Hanem_20 (DQ), Kabocha_21 (DQ), Lenoshki_19 (DQ), Mikronejon_19 (DQ), MintFritos_19 (DQ), Oogie_20 (DQ), Pakusa_19 (DQ), ScarletRaider_19 (DQ), Schomber_19 (DQ), Toneprano_19 (DQ), Twin_19 (DQ), UBSmoodge_21 (DQ),

Start 9:

- Found in 1 of 26 (3.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Thales_14 (DQ),

Summary by clusters:

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 7 was manually annotated 2 times for cluster DQ.
- Start number 8 was manually annotated 10 times for cluster DQ.

Gene Information:

Gene: Aloki_20 Start: 8249, Stop: 8545, Start Num: 8

Candidate Starts for Aloki_20:

(6, 8231), (Start: 7 @8246 has 2 MA's), (Start: 8 @8249 has 10 MA's), (10, 8273), (15, 8288), (19, 8327), (20, 8330), (21, 8333), (22, 8342), (31, 8399), (34, 8432), (36, 8441), (37, 8474),

Gene: Amoonguss_19 Start: 8252, Stop: 8548, Start Num: 8

Candidate Starts for Amoonguss_19:

(6, 8234), (Start: 7 @8249 has 2 MA's), (Start: 8 @8252 has 10 MA's), (10, 8276), (15, 8291), (19, 8330), (20, 8333), (21, 8336), (22, 8345), (31, 8402), (34, 8435), (36, 8444), (37, 8477),

Gene: Argena_19 Start: 8249, Stop: 8545, Start Num: 8

Candidate Starts for Argena_19:

(6, 8231), (Start: 7 @8246 has 2 MA's), (Start: 8 @8249 has 10 MA's), (10, 8273), (15, 8288), (19, 8327), (20, 8330), (21, 8333), (22, 8342), (31, 8399), (34, 8432), (36, 8441), (37, 8474),

Gene: Beted_19 Start: 7875, Stop: 8171, Start Num: 8

Candidate Starts for Beted_19:

(Start: 7 @7872 has 2 MA's), (Start: 8 @7875 has 10 MA's), (15, 7914), (19, 7953), (20, 7956), (21, 7959), (22, 7968), (31, 8025), (34, 8058), (36, 8067), (37, 8100),

Gene: Chidiebere_20 Start: 8246, Stop: 8545, Start Num: 7

Candidate Starts for Chidiebere_20:

(6, 8231), (Start: 7 @8246 has 2 MA's), (Start: 8 @8249 has 10 MA's), (10, 8273), (15, 8288), (19, 8327), (20, 8330), (21, 8333), (22, 8342), (31, 8399), (34, 8432), (36, 8441), (37, 8474),

Gene: ChisanaKitsune_16 Start: 6950, Stop: 7246, Start Num: 8

Candidate Starts for ChisanaKitsune_16:

(Start: 7 @6947 has 2 MA's), (Start: 8 @6950 has 10 MA's), (15, 6989), (19, 7028), (20, 7031), (21, 7034), (22, 7043), (31, 7100), (34, 7133), (36, 7142), (37, 7175),

Gene: DalanDe_14 Start: 7357, Stop: 7665, Start Num: 8

Candidate Starts for DalanDe_14:

(1, 7243), (3, 7282), (4, 7315), (Start: 8 @7357 has 10 MA's), (11, 7381), (12, 7387), (13, 7390), (17, 7423), (23, 7456), (24, 7462), (25, 7465), (26, 7492), (27, 7495), (29, 7501), (31, 7516), (32, 7525), (33, 7540), (36, 7558), (40, 7627), (41, 7645),

Gene: EmoNemo_19 Start: 8249, Stop: 8545, Start Num: 8

Candidate Starts for EmoNemo_19:

(6, 8231), (Start: 7 @8246 has 2 MA's), (Start: 8 @8249 has 10 MA's), (10, 8273), (15, 8288), (19, 8327), (20, 8330), (21, 8333), (22, 8342), (31, 8399), (34, 8432), (36, 8441), (37, 8474),

Gene: Farrylious_18 Start: 8002, Stop: 8298, Start Num: 8

Candidate Starts for Farrylious_18:

(Start: 7 @7999 has 2 MA's), (Start: 8 @8002 has 10 MA's), (10, 8026), (15, 8041), (19, 8080), (20, 8083), (21, 8086), (22, 8095), (31, 8152), (34, 8185), (36, 8194), (37, 8227),

Gene: FlyingTortilla_19 Start: 9321, Stop: 9617, Start Num: 8

Candidate Starts for FlyingTortilla_19:

(5, 9282), (Start: 7 @9318 has 2 MA's), (Start: 8 @9321 has 10 MA's), (20, 9393), (28, 9450), (34, 9492), (35, 9498), (36, 9501), (37, 9534),

Gene: FruityLoops_18 Start: 9326, Stop: 9622, Start Num: 8

Candidate Starts for FruityLoops_18:

(5, 9287), (Start: 7 @9323 has 2 MA's), (Start: 8 @9326 has 10 MA's), (20, 9398), (28, 9455), (31, 9464), (34, 9497), (35, 9503), (36, 9506), (37, 9539),

Gene: GMA6_7 Start: 3711, Stop: 4031, Start Num: 8

Candidate Starts for GMA6_7:

(2, 3609), (Start: 7 @3708 has 2 MA's), (Start: 8 @3711 has 10 MA's), (16, 3756), (18, 3789), (26, 3846), (27, 3849), (30, 3864), (31, 3870), (38, 3966), (39, 3975),

Gene: Gray_20 Start: 8246, Stop: 8545, Start Num: 7

Candidate Starts for Gray_20:

(6, 8231), (Start: 7 @8246 has 2 MA's), (Start: 8 @8249 has 10 MA's), (10, 8273), (15, 8288), (19, 8327), (20, 8330), (21, 8333), (22, 8342), (31, 8399), (34, 8432), (36, 8441), (37, 8474),

Gene: Hanem_20 Start: 8249, Stop: 8545, Start Num: 8

Candidate Starts for Hanem_20:

(6, 8231), (Start: 7 @8246 has 2 MA's), (Start: 8 @8249 has 10 MA's), (10, 8273), (15, 8288), (19, 8327), (20, 8330), (21, 8333), (22, 8342), (31, 8399), (34, 8432), (36, 8441), (37, 8474),

Gene: Kabocha_21 Start: 9062, Stop: 9358, Start Num: 8

Candidate Starts for Kabocha_21:

(6, 9044), (Start: 7 @9059 has 2 MA's), (Start: 8 @9062 has 10 MA's), (10, 9086), (15, 9101), (19, 9140), (20, 9143), (21, 9146), (22, 9155), (31, 9212), (34, 9245), (36, 9254), (37, 9287),

Gene: Lenoshki_19 Start: 7875, Stop: 8171, Start Num: 8

Candidate Starts for Lenoshki_19:

(Start: 7 @7872 has 2 MA's), (Start: 8 @7875 has 10 MA's), (15, 7914), (19, 7953), (20, 7956), (21, 7959), (22, 7968), (31, 8025), (34, 8058), (36, 8067), (37, 8100),

Gene: Mikronejon_19 Start: 8249, Stop: 8545, Start Num: 8

Candidate Starts for Mikronejon_19:

(6, 8231), (Start: 7 @8246 has 2 MA's), (Start: 8 @8249 has 10 MA's), (10, 8273), (15, 8288), (19, 8327), (20, 8330), (21, 8333), (22, 8342), (31, 8399), (34, 8432), (36, 8441), (37, 8474),

Gene: MintFritos_19 Start: 8249, Stop: 8545, Start Num: 8

Candidate Starts for MintFritos_19:

(6, 8231), (Start: 7 @8246 has 2 MA's), (Start: 8 @8249 has 10 MA's), (10, 8273), (15, 8288), (19, 8327), (20, 8330), (21, 8333), (22, 8342), (31, 8399), (34, 8432), (36, 8441), (37, 8474),

Gene: Oogie_20 Start: 7901, Stop: 8197, Start Num: 8

Candidate Starts for Oogie_20:

(Start: 7 @7898 has 2 MA's), (Start: 8 @7901 has 10 MA's), (15, 7940), (19, 7979), (20, 7982), (21, 7985), (22, 7994), (31, 8051), (34, 8084), (36, 8093), (37, 8126),

Gene: Pakusa_19 Start: 7991, Stop: 8287, Start Num: 8

Candidate Starts for Pakusa_19:

(6, 7973), (Start: 7 @7988 has 2 MA's), (Start: 8 @7991 has 10 MA's), (10, 8015), (15, 8030), (19, 8069), (20, 8072), (21, 8075), (22, 8084), (31, 8141), (34, 8174), (36, 8183), (37, 8216),

Gene: ScarletRaider_19 Start: 9348, Stop: 9644, Start Num: 8

Candidate Starts for ScarletRaider_19:

(5, 9309), (Start: 7 @9345 has 2 MA's), (Start: 8 @9348 has 10 MA's), (20, 9420), (28, 9477), (31, 9486), (34, 9519), (35, 9525), (36, 9528), (37, 9561),

Gene: Schomber_19 Start: 7999, Stop: 8295, Start Num: 8

Candidate Starts for Schomber_19:

(5, 7960), (Start: 7 @7996 has 2 MA's), (Start: 8 @7999 has 10 MA's), (10, 8023), (15, 8038), (19, 8077), (20, 8080), (21, 8083), (22, 8092), (31, 8149), (34, 8182), (36, 8191), (37, 8224),

Gene: Thales_14 Start: 6698, Stop: 7003, Start Num: 9

Candidate Starts for Thales_14:

(3, 6608), (9, 6698), (11, 6719), (13, 6728), (14, 6731), (17, 6761), (23, 6794), (24, 6800), (25, 6803), (26, 6830), (27, 6833), (29, 6839), (31, 6854), (32, 6863), (33, 6878), (36, 6896), (40, 6965), (41, 6983),

Gene: Toneprano_19 Start: 8249, Stop: 8545, Start Num: 8

Candidate Starts for Toneprano_19:

(6, 8231), (Start: 7 @8246 has 2 MA's), (Start: 8 @8249 has 10 MA's), (10, 8273), (15, 8288), (19, 8327), (20, 8330), (21, 8333), (22, 8342), (31, 8399), (34, 8432), (36, 8441), (37, 8474),

Gene: Twin_19 Start: 8249, Stop: 8545, Start Num: 8

Candidate Starts for Twin_19:

(6, 8231), (Start: 7 @8246 has 2 MA's), (Start: 8 @8249 has 10 MA's), (10, 8273), (15, 8288), (19, 8327), (20, 8330), (21, 8333), (22, 8342), (31, 8399), (34, 8432), (36, 8441), (37, 8474),

Gene: UBSmoodge_21 Start: 9817, Stop: 10113, Start Num: 8

Candidate Starts for UBSmoodge_21:

(5, 9778), (Start: 7 @9814 has 2 MA's), (Start: 8 @9817 has 10 MA's), (20, 9889), (28, 9946), (31, 9955), (34, 9988), (35, 9994), (36, 9997), (37, 10030),