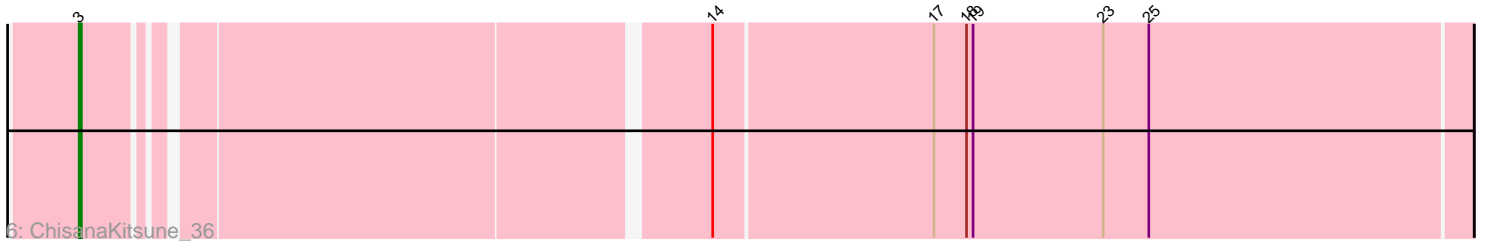
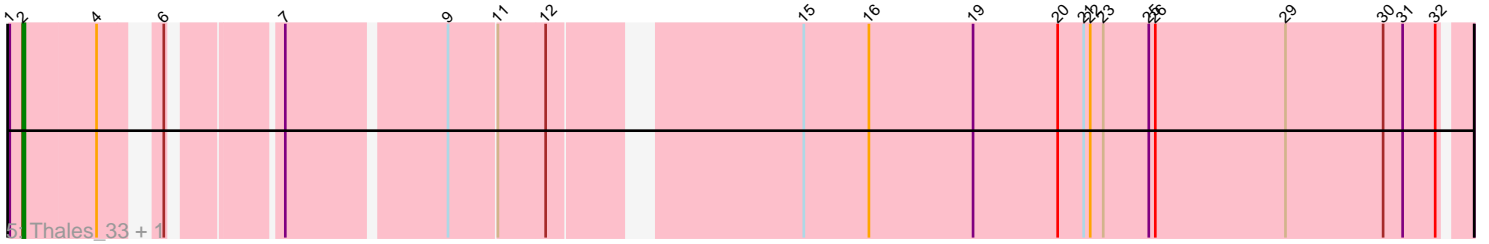
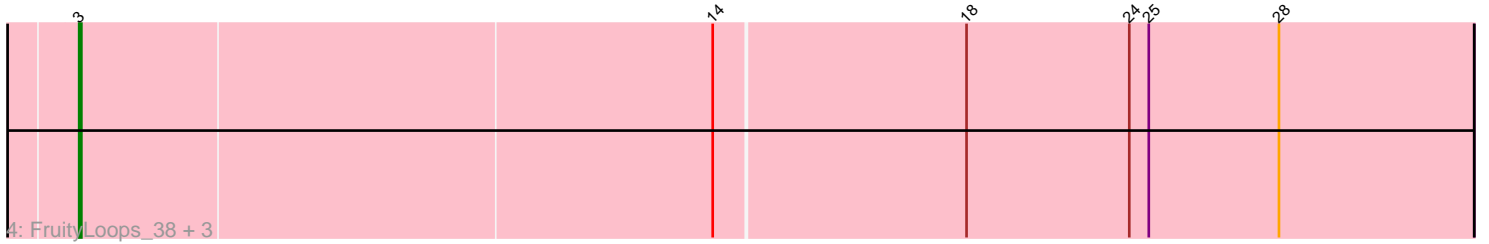
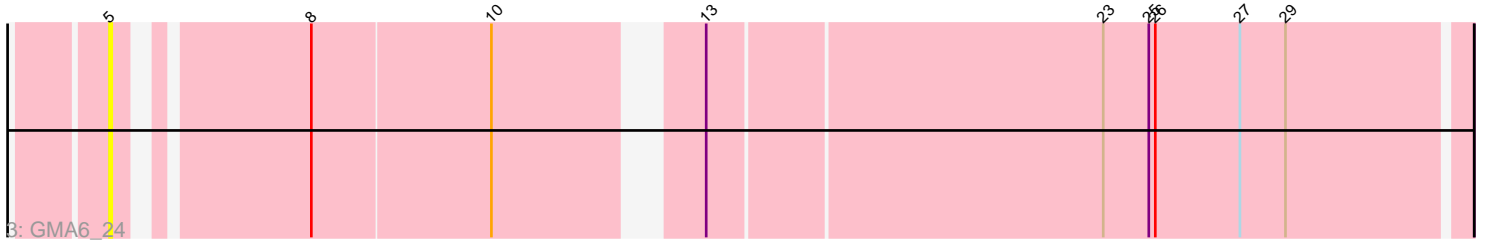
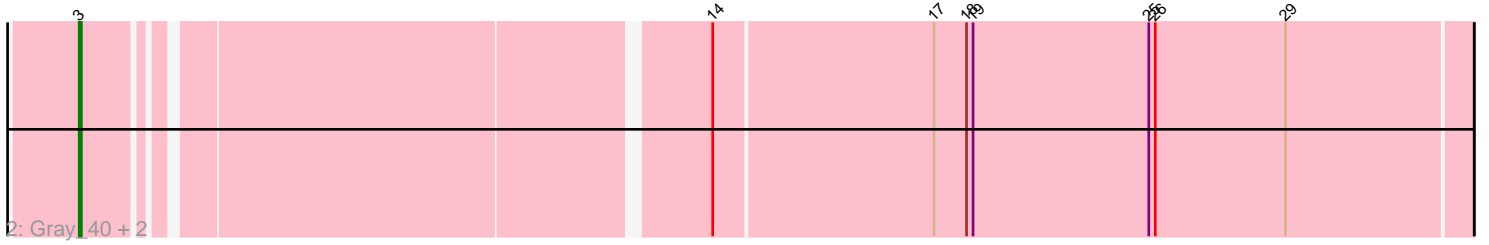
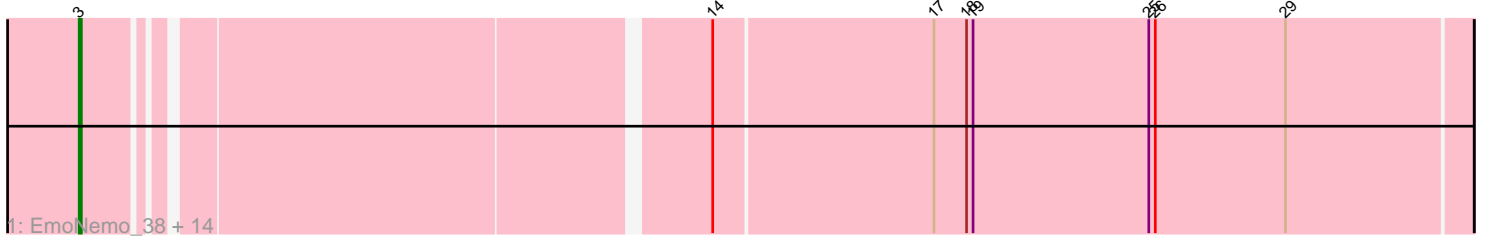


Pham 309128



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 309128 Report

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

Pham number 309128 has 26 members, 14 are drafts.

Phages represented in each track:

- Track 1 : EmoNemo_38, Pakusa_38, Amoonguss_38, Beted_40, Chidiebere_40, Twin_38, Hanem_40, Argena_38, Schomber_39, Toneprano_38, Lenoshki_40, Kabocha_41, Mikronejon_38, Oogie_41, Aloki_40
- Track 2 : Gray_40, Farrylious_38, MintFritos_38
- Track 3 : GMA6_24
- Track 4 : FruityLoops_38, ScarletRaider_39, FlyingTortilla_39, UBSmoodge_41
- Track 5 : Thales_33, DalanDe_34
- Track 6 : ChisanaKitsune_36

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 11 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aloki_40, Amoonguss_38, Argena_38, Beted_40, Chidiebere_40, ChisanaKitsune_36, EmoNemo_38, Farrylious_38, FlyingTortilla_39, FruityLoops_38, Gray_40, Hanem_40, Kabocha_41, Lenoshki_40, Mikronejon_38, MintFritos_38, Oogie_41, Pakusa_38, ScarletRaider_39, Schomber_39, Toneprano_38, Twin_38, UBSmoodge_41,

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

-

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

- DalanDe_34, GMA6_24, Thales_33,

Summary by start number:

Start 2:

- Found in 2 of 26 (7.7%) of genes in pham
- Manual Annotations of this start: 1 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DalanDe_34 (DQ), Thales_33 (DQ),

Start 3:

- Found in 23 of 26 (88.5%) of genes in pham
- Manual Annotations of this start: 11 of 12
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aloki_40 (DQ), Amoonguss_38 (DQ), Argena_38 (DQ), Beted_40 (DQ), Chidiebere_40 (DQ), ChisanaKitsune_36 (DQ), EmoNemo_38 (DQ), Farrylous_38 (DQ), FlyingTortilla_39 (DQ), FruityLoops_38 (DQ), Gray_40 (DQ), Hanem_40 (DQ), Kabocha_41 (DQ), Lenoshki_40 (DQ), Mikronejon_38 (DQ), MintFritos_38 (DQ), Oogie_41 (DQ), Pakusa_38 (DQ), ScarletRaider_39 (DQ), Schomber_39 (DQ), Toneprano_38 (DQ), Twin_38 (DQ), UBSmoodge_41 (DQ),

Start 5:

- 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: GMA6_24 (DQ),

Summary by clusters:

There is one cluster represented in this pham: DQ

Info for manual annotations of cluster DQ:

- Start number 2 was manually annotated 1 time for cluster DQ.
- Start number 3 was manually annotated 11 times for cluster DQ.

Gene Information:

Gene: Aloki_40 Start: 28649, Stop: 29257, Start Num: 3

Candidate Starts for Aloki_40:

(Start: 3 @28649 has 11 MA's), (14, 28913), (17, 29012), (18, 29027), (19, 29030), (25, 29111), (26, 29114), (29, 29174),

Gene: Amoonguss_38 Start: 28652, Stop: 29260, Start Num: 3

Candidate Starts for Amoonguss_38:

(Start: 3 @28652 has 11 MA's), (14, 28916), (17, 29015), (18, 29030), (19, 29033), (25, 29114), (26, 29117), (29, 29177),

Gene: Argena_38 Start: 28649, Stop: 29257, Start Num: 3

Candidate Starts for Argena_38:

(Start: 3 @28649 has 11 MA's), (14, 28913), (17, 29012), (18, 29027), (19, 29030), (25, 29111), (26, 29114), (29, 29174),

Gene: Beted_40 Start: 30329, Stop: 30937, Start Num: 3

Candidate Starts for Beted_40:

(Start: 3 @30329 has 11 MA's), (14, 30593), (17, 30692), (18, 30707), (19, 30710), (25, 30791), (26, 30794), (29, 30854),

Gene: Chidiebere_40 Start: 28649, Stop: 29257, Start Num: 3

Candidate Starts for Chidiebere_40:

(Start: 3 @28649 has 11 MA's), (14, 28913), (17, 29012), (18, 29027), (19, 29030), (25, 29111), (26, 29114), (29, 29174),

Gene: ChisanaKitsune_36 Start: 27443, Stop: 28051, Start Num: 3

Candidate Starts for ChisanaKitsune_36:

(Start: 3 @27443 has 11 MA's), (14, 27707), (17, 27806), (18, 27821), (19, 27824), (23, 27884), (25, 27905),

Gene: DalanDe_34 Start: 31318, Stop: 31914, Start Num: 2

Candidate Starts for DalanDe_34:

(1, 31312), (Start: 2 @31318 has 1 MA's), (4, 31351), (6, 31369), (7, 31411), (9, 31468), (11, 31489), (12, 31510), (15, 31612), (16, 31642), (19, 31690), (20, 31729), (21, 31741), (22, 31744), (23, 31750), (25, 31771), (26, 31774), (29, 31834), (30, 31879), (31, 31888), (32, 31903),

Gene: EmoNemo_38 Start: 28649, Stop: 29257, Start Num: 3

Candidate Starts for EmoNemo_38:

(Start: 3 @28649 has 11 MA's), (14, 28913), (17, 29012), (18, 29027), (19, 29030), (25, 29111), (26, 29114), (29, 29174),

Gene: Farrylious_38 Start: 28425, Stop: 29033, Start Num: 3

Candidate Starts for Farrylious_38:

(Start: 3 @28425 has 11 MA's), (14, 28689), (17, 28788), (18, 28803), (19, 28806), (25, 28887), (26, 28890), (29, 28950),

Gene: FlyingTortilla_39 Start: 31503, Stop: 32126, Start Num: 3

Candidate Starts for FlyingTortilla_39:

(Start: 3 @31503 has 11 MA's), (14, 31776), (18, 31893), (24, 31968), (25, 31977), (28, 32037),

Gene: FruityLoops_38 Start: 31505, Stop: 32140, Start Num: 3

Candidate Starts for FruityLoops_38:

(Start: 3 @31505 has 11 MA's), (14, 31793), (18, 31907), (24, 31982), (25, 31991), (28, 32051),

Gene: GMA6_24 Start: 19372, Stop: 19947, Start Num: 5

Candidate Starts for GMA6_24:

(5, 19372), (8, 19447), (10, 19528), (13, 19606), (23, 19783), (25, 19804), (26, 19807), (27, 19846), (29, 19867),

Gene: Gray_40 Start: 28650, Stop: 29258, Start Num: 3

Candidate Starts for Gray_40:

(Start: 3 @28650 has 11 MA's), (14, 28914), (17, 29013), (18, 29028), (19, 29031), (25, 29112), (26, 29115), (29, 29175),

Gene: Hanem_40 Start: 28649, Stop: 29257, Start Num: 3

Candidate Starts for Hanem_40:

(Start: 3 @28649 has 11 MA's), (14, 28913), (17, 29012), (18, 29027), (19, 29030), (25, 29111), (26, 29114), (29, 29174),

Gene: Kabocha_41 Start: 29462, Stop: 30070, Start Num: 3

Candidate Starts for Kabocha_41:

(Start: 3 @29462 has 11 MA's), (14, 29726), (17, 29825), (18, 29840), (19, 29843), (25, 29924), (26, 29927), (29, 29987),

Gene: Lenoshki_40 Start: 30329, Stop: 30937, Start Num: 3

Candidate Starts for Lenoshki_40:

(Start: 3 @30329 has 11 MA's), (14, 30593), (17, 30692), (18, 30707), (19, 30710), (25, 30791), (26, 30794), (29, 30854),

Gene: Mikronejon_38 Start: 28649, Stop: 29257, Start Num: 3

Candidate Starts for Mikronejon_38:

(Start: 3 @28649 has 11 MA's), (14, 28913), (17, 29012), (18, 29027), (19, 29030), (25, 29111), (26, 29114), (29, 29174),

Gene: MintFritos_38 Start: 28650, Stop: 29258, Start Num: 3

Candidate Starts for MintFritos_38:

(Start: 3 @28650 has 11 MA's), (14, 28914), (17, 29013), (18, 29028), (19, 29031), (25, 29112), (26, 29115), (29, 29175),

Gene: Oogie_41 Start: 30355, Stop: 30963, Start Num: 3

Candidate Starts for Oogie_41:

(Start: 3 @30355 has 11 MA's), (14, 30619), (17, 30718), (18, 30733), (19, 30736), (25, 30817), (26, 30820), (29, 30880),

Gene: Pakusa_38 Start: 28391, Stop: 28999, Start Num: 3

Candidate Starts for Pakusa_38:

(Start: 3 @28391 has 11 MA's), (14, 28655), (17, 28754), (18, 28769), (19, 28772), (25, 28853), (26, 28856), (29, 28916),

Gene: ScarletRaider_39 Start: 31530, Stop: 32153, Start Num: 3

Candidate Starts for ScarletRaider_39:

(Start: 3 @31530 has 11 MA's), (14, 31803), (18, 31920), (24, 31995), (25, 32004), (28, 32064),

Gene: Schomber_39 Start: 28399, Stop: 29007, Start Num: 3

Candidate Starts for Schomber_39:

(Start: 3 @28399 has 11 MA's), (14, 28663), (17, 28762), (18, 28777), (19, 28780), (25, 28861), (26, 28864), (29, 28924),

Gene: Thales_33 Start: 30222, Stop: 30830, Start Num: 2

Candidate Starts for Thales_33:

(1, 30216), (Start: 2 @30222 has 1 MA's), (4, 30255), (6, 30273), (7, 30315), (9, 30384), (11, 30405), (12, 30426), (15, 30528), (16, 30558), (19, 30606), (20, 30645), (21, 30657), (22, 30660), (23, 30666), (25, 30687), (26, 30690), (29, 30750), (30, 30795), (31, 30804), (32, 30819),

Gene: Toneprano_38 Start: 28649, Stop: 29257, Start Num: 3

Candidate Starts for Toneprano_38:

(Start: 3 @28649 has 11 MA's), (14, 28913), (17, 29012), (18, 29027), (19, 29030), (25, 29111), (26, 29114), (29, 29174),

Gene: Twin_38 Start: 28649, Stop: 29257, Start Num: 3

Candidate Starts for Twin_38:

(Start: 3 @28649 has 11 MA's), (14, 28913), (17, 29012), (18, 29027), (19, 29030), (25, 29111), (26, 29114), (29, 29174),

Gene: UBSmoodge_41 Start: 31264, Stop: 31887, Start Num: 3

Candidate Starts for UBSmoodge_41:

(Start: 3 @31264 has 11 MA's), (14, 31537), (18, 31654), (24, 31729), (25, 31738), (28, 31798),