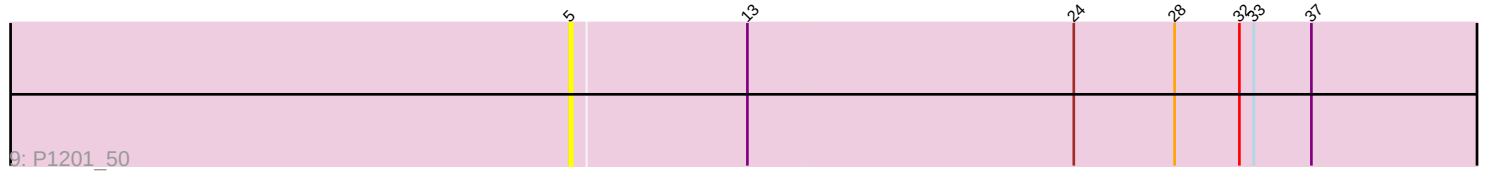
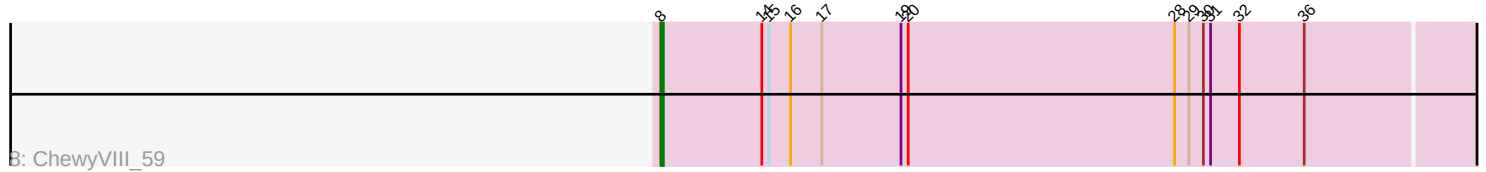
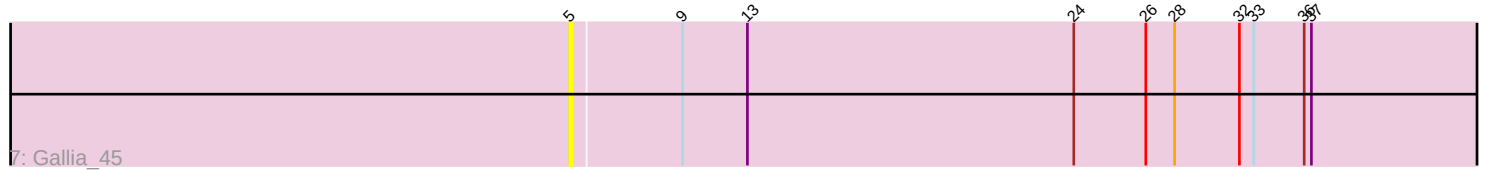
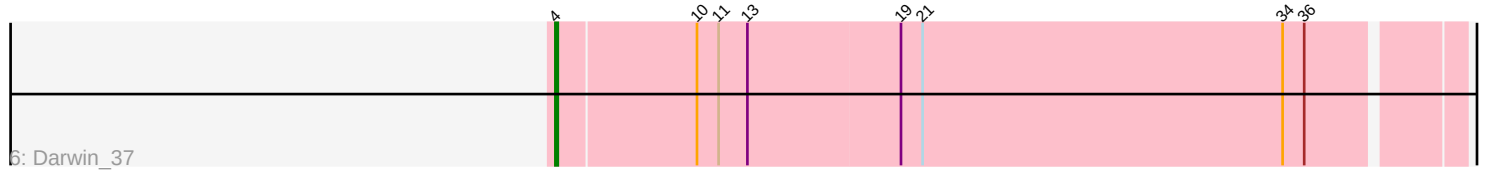
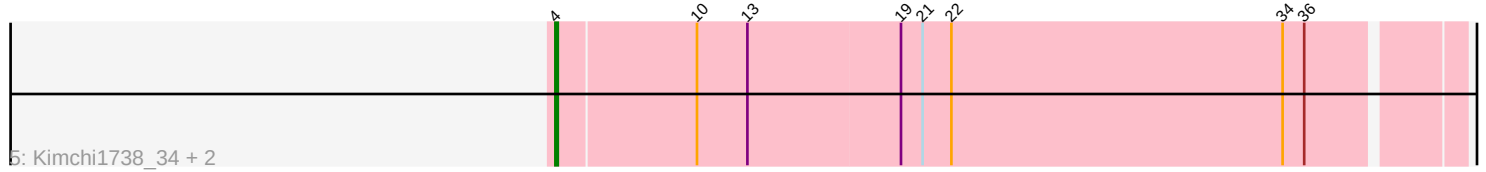
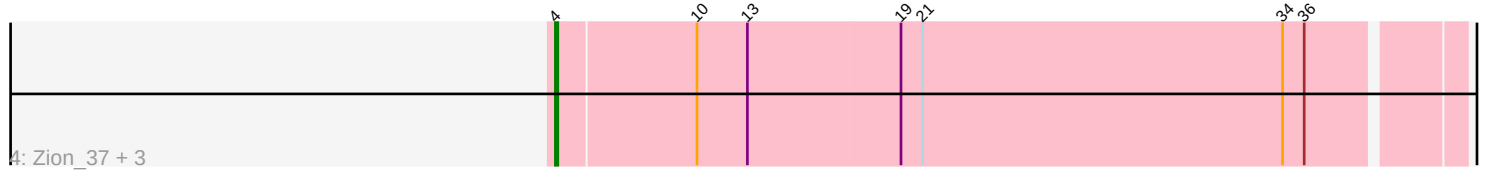
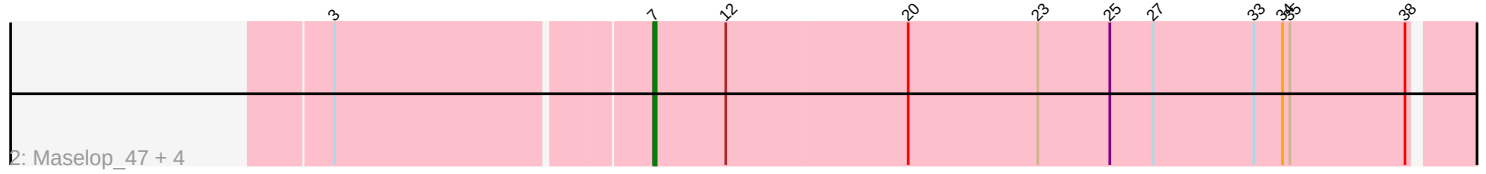
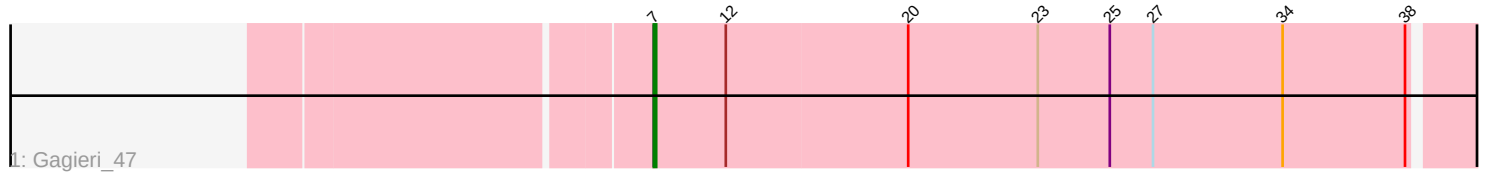


Pham 309395



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 309395 Report

This analysis was run 09/05/26 on database version 662.

Pham number 309395 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Gagieri_47
- Track 2 : Maselop_47, Apiary_47, Braxoaddie_47, CoffeeBean_47, Polygyuki_47
- Track 3 : MacGully_55
- Track 4 : Zion_37, PeteyPab_36, PotatoChip_37, Stickynote_36
- Track 5 : Kimchi1738_34, C3PO_34, Cruella_34
- Track 6 : Darwin_37
- Track 7 : Gallia_45
- Track 8 : ChewyVIII_59
- Track 9 : P1201_50

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

The start number called the most often in the published annotations is 4, it was called in 8 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- C3PO_34, Cruella_34, Darwin_37, Kimchi1738_34, PeteyPab_36, PotatoChip_37, Stickynote_36, Zion_37,

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

-

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

- Apiary_47, Braxoaddie_47, ChewyVIII_59, CoffeeBean_47, Gagieri_47, Gallia_45, MacGully_55, Maselop_47, P1201_50, Polygyuki_47,

Summary by start number:

Start 4:

- Found in 8 of 18 (44.4%) of genes in pham
- Manual Annotations of this start: 8 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO_34 (EN), Cruella_34 (EN), Darwin_37 (EN), Kimchi1738_34 (EN), PeteyPab_36 (EN), PotatoChip_37 (EN),

Stickynote_36 (EN), Zion_37 (EN),

Start 5:

- Found in 2 of 18 (11.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gallia_45 (singleton), P1201_50 (singleton),

Start 7:

- Found in 7 of 18 (38.9%) of genes in pham
- Manual Annotations of this start: 7 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Apiary_47 (CR6), Braxoaddie_47 (CR6), CoffeeBean_47 (CR6), Gagieri_47 (CR6), MacGully_55 (CR7), Maselop_47 (CR6), Polyyuki_47 (CR6),

Start 8:

- Found in 1 of 18 (5.6%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ChewyVIII_59 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, EN, CR6, CR7,

Info for manual annotations of cluster CR6:

- Start number 7 was manually annotated 6 times for cluster CR6.

Info for manual annotations of cluster CR7:

- Start number 7 was manually annotated 1 time for cluster CR7.

Info for manual annotations of cluster EN:

- Start number 4 was manually annotated 8 times for cluster EN.

Gene Information:

Gene: Apiary_47 Start: 34066, Stop: 34407, Start Num: 7

Candidate Starts for Apiary_47:

(3, 33940), (Start: 7 @34066 has 7 MA's), (12, 34096), (20, 34171), (23, 34225), (25, 34255), (27, 34273), (33, 34315), (34, 34327), (35, 34330), (38, 34378),

Gene: Braxoaddie_47 Start: 34055, Stop: 34396, Start Num: 7

Candidate Starts for Braxoaddie_47:

(3, 33929), (Start: 7 @34055 has 7 MA's), (12, 34085), (20, 34160), (23, 34214), (25, 34244), (27, 34262), (33, 34304), (34, 34316), (35, 34319), (38, 34367),

Gene: C3PO_34 Start: 31046, Stop: 31414, Start Num: 4

Candidate Starts for C3PO_34:

(Start: 4 @31046 has 8 MA's), (10, 31103), (13, 31124), (19, 31187), (21, 31196), (22, 31208), (34, 31346), (36, 31355),

Gene: ChewyVIII_59 Start: 41350, Stop: 41691, Start Num: 8

Candidate Starts for ChewyVIII_59:

(Start: 8 @41350 has 1 MA's), (14, 41392), (15, 41395), (16, 41404), (17, 41416), (19, 41449), (20, 41452), (28, 41563), (29, 41569), (30, 41575), (31, 41578), (32, 41590), (36, 41617),

Gene: CoffeeBean_47 Start: 34013, Stop: 34354, Start Num: 7

Candidate Starts for CoffeeBean_47:

(3, 33887), (Start: 7 @34013 has 7 MA's), (12, 34043), (20, 34118), (23, 34172), (25, 34202), (27, 34220), (33, 34262), (34, 34274), (35, 34277), (38, 34325),

Gene: Cruella_34 Start: 31046, Stop: 31414, Start Num: 4

Candidate Starts for Cruella_34:

(Start: 4 @31046 has 8 MA's), (10, 31103), (13, 31124), (19, 31187), (21, 31196), (22, 31208), (34, 31346), (36, 31355),

Gene: Darwin_37 Start: 30731, Stop: 31099, Start Num: 4

Candidate Starts for Darwin_37:

(Start: 4 @30731 has 8 MA's), (10, 30788), (11, 30797), (13, 30809), (19, 30872), (21, 30881), (34, 31031), (36, 31040),

Gene: Gagieri_47 Start: 33887, Stop: 34228, Start Num: 7

Candidate Starts for Gagieri_47:

(Start: 7 @33887 has 7 MA's), (12, 33917), (20, 33992), (23, 34046), (25, 34076), (27, 34094), (34, 34148), (38, 34199),

Gene: Gallia_45 Start: 37394, Stop: 37795, Start Num: 5

Candidate Starts for Gallia_45:

(5, 37394), (9, 37439), (13, 37466), (24, 37601), (26, 37631), (28, 37643), (32, 37670), (33, 37676), (36, 37697), (37, 37700),

Gene: Kimchi1738_34 Start: 30134, Stop: 30502, Start Num: 4

Candidate Starts for Kimchi1738_34:

(Start: 4 @30134 has 8 MA's), (10, 30191), (13, 30212), (19, 30275), (21, 30284), (22, 30296), (34, 30434), (36, 30443),

Gene: MacGully_55 Start: 37056, Stop: 37400, Start Num: 7

Candidate Starts for MacGully_55:

(1, 36819), (2, 36915), (6, 37035), (Start: 7 @37056 has 7 MA's), (18, 37140), (22, 37176), (31, 37284),

Gene: Maselop_47 Start: 34089, Stop: 34430, Start Num: 7

Candidate Starts for Maselop_47:

(3, 33963), (Start: 7 @34089 has 7 MA's), (12, 34119), (20, 34194), (23, 34248), (25, 34278), (27, 34296), (33, 34338), (34, 34350), (35, 34353), (38, 34401),

Gene: P1201_50 Start: 37078, Stop: 37479, Start Num: 5

Candidate Starts for P1201_50:

(5, 37078), (13, 37150), (24, 37285), (28, 37327), (32, 37354), (33, 37360), (37, 37384),

Gene: PeteyPab_36 Start: 31891, Stop: 32259, Start Num: 4

Candidate Starts for PeteyPab_36:

(Start: 4 @31891 has 8 MA's), (10, 31948), (13, 31969), (19, 32032), (21, 32041), (34, 32191), (36, 32200),

Gene: Polyyuki_47 Start: 34078, Stop: 34419, Start Num: 7

Candidate Starts for Polyyuki_47:

(3, 33952), (Start: 7 @34078 has 7 MA's), (12, 34108), (20, 34183), (23, 34237), (25, 34267), (27, 34285), (33, 34327), (34, 34339), (35, 34342), (38, 34390),

Gene: PotatoChip_37 Start: 31893, Stop: 32261, Start Num: 4

Candidate Starts for PotatoChip_37:

(Start: 4 @31893 has 8 MA's), (10, 31950), (13, 31971), (19, 32034), (21, 32043), (34, 32193), (36, 32202),

Gene: Stickynote_36 Start: 31313, Stop: 31681, Start Num: 4

Candidate Starts for Stickynote_36:

(Start: 4 @31313 has 8 MA's), (10, 31370), (13, 31391), (19, 31454), (21, 31463), (34, 31613), (36, 31622),

Gene: Zion_37 Start: 31891, Stop: 32259, Start Num: 4

Candidate Starts for Zion_37:

(Start: 4 @31891 has 8 MA's), (10, 31948), (13, 31969), (19, 32032), (21, 32041), (34, 32191), (36, 32200),