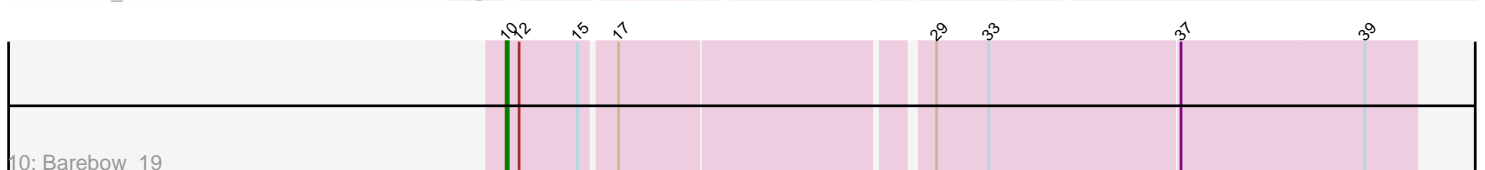
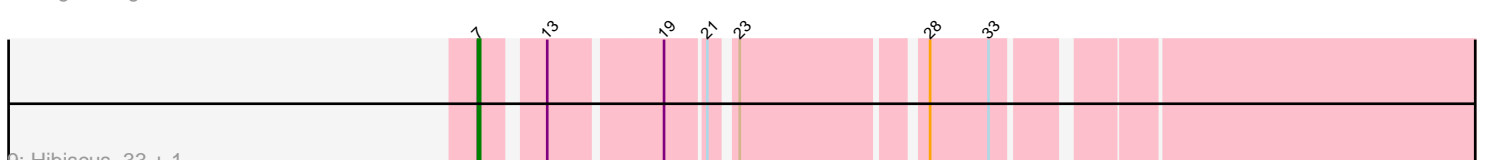
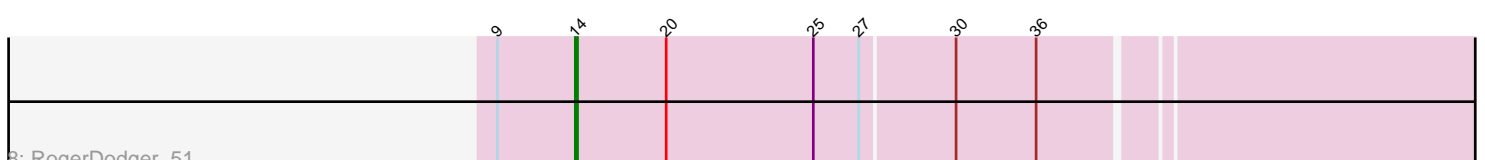
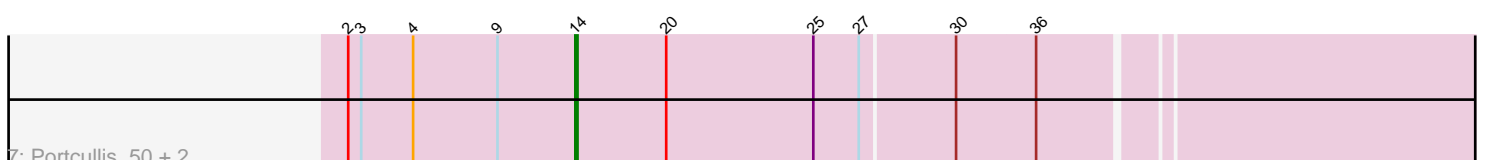
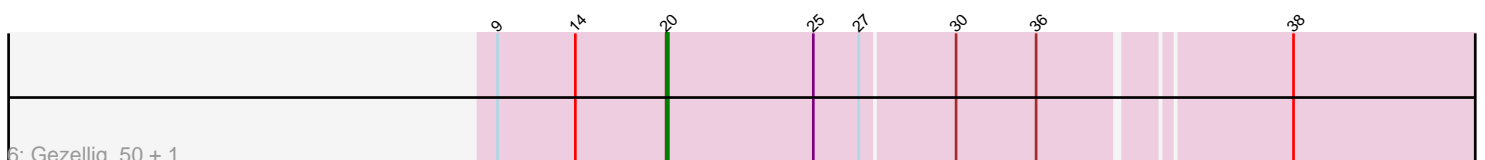
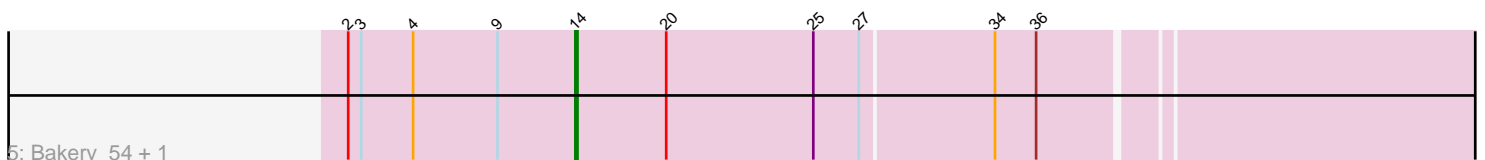
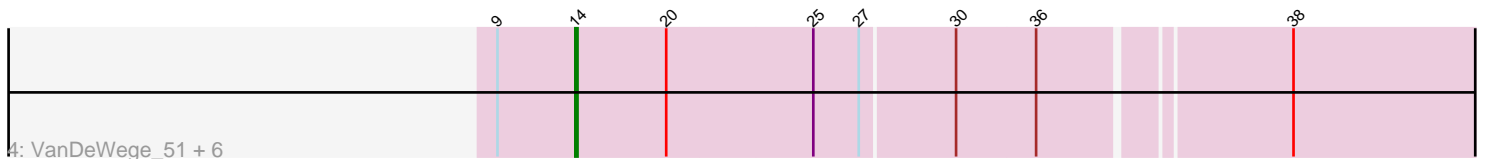
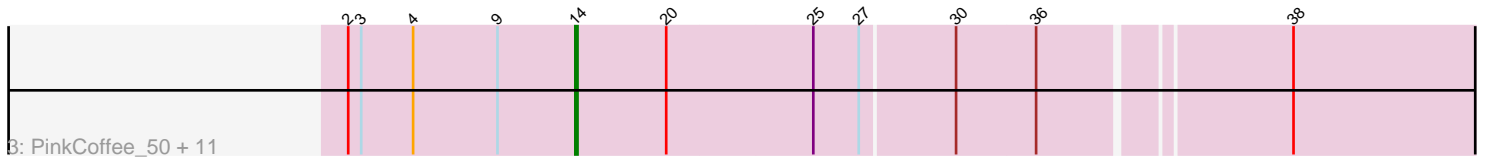
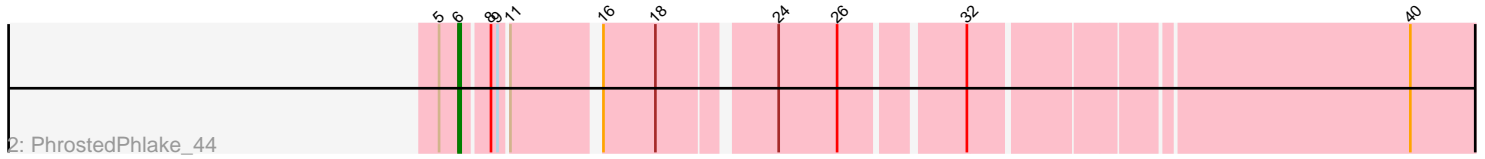
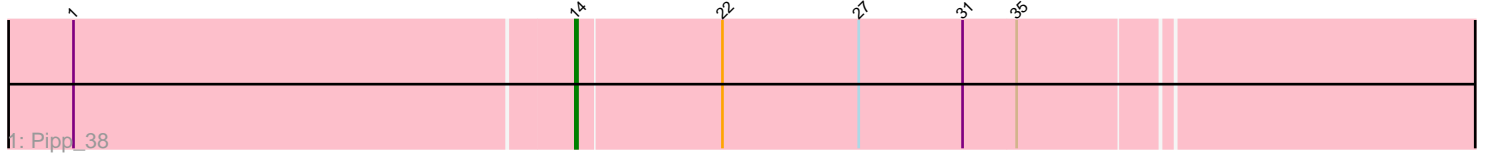


Pham 224780



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 224780 Report

This analysis was run 03/28/25 on database version 593.

Pham number 224780 has 32 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Pipp_38
- Track 2 : PhrostedPhlake_44
- Track 3 : PinkCoffee_50, Togo_47, Evamon_47, ClamChowder_50, Fugax_51, Phlop_47, PullumCavea_47, Nubi_48, Barb_50, SmokingBunny_48, Salvador_47, KimmyK_49
- Track 4 : VanDeWege_51, Savbucketdawg_48, Halo3_49, Mutzi_48, Jambalaya_48, CoveyB_51, Valary_50
- Track 5 : Bakery_54, Arri_51
- Track 6 : Gezellig_50, Wizard_47
- Track 7 : Portcullis_50, Danyall_50, Twister6_50
- Track 8 : RogerDodger_51
- Track 9 : Hibiscus_33, Heinz_33
- Track 10 : Barebow_19

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

The start number called the most often in the published annotations is 14, it was called in 25 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri_51, Bakery_54, Barb_50, ClamChowder_50, CoveyB_51, Danyall_50, Evamon_47, Fugax_51, Halo3_49, Jambalaya_48, KimmyK_49, Mutzi_48, Nubi_48, Phlop_47, PinkCoffee_50, Pipp_38, Portcullis_50, PullumCavea_47, RogerDodger_51, Salvador_47, Savbucketdawg_48, SmokingBunny_48, Togo_47, Twister6_50, Valary_50, VanDeWege_51,

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

- Gezellig_50, Wizard_47,

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

- Barebow_19, Heinz_33, Hibiscus_33, PhrostedPhlake_44,

Summary by start number:

Start 6:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: PhrostedPhlake_44 (CV),

Start 7:

- Found in 2 of 32 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Heinz_33 (DY), Hibiscus_33 (DY),

Start 10:

- Found in 1 of 32 (3.1%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barebow_19 (singleton),

Start 14:

- Found in 28 of 32 (87.5%) of genes in pham
- Manual Annotations of this start: 25 of 29
- Called 92.9% of time when present
- Phage (with cluster) where this start called: Arri_51 (DC1), Bakery_54 (DC1), Barb_50 (DC1), ClamChowder_50 (DC1), CoveyB_51 (DC1), Danyall_50 (DC1), Evamon_47 (DC1), Fugax_51 (DC1), Halo3_49 (DC1), Jambalaya_48 (DC1), KimmyK_49 (DC1), Mutzi_48 (DC1), Nubi_48 (DC1), Phlop_47 (DC1), PinkCoffee_50 (DC1), Pipp_38 (CV), Portcullis_50 (DC1), PullumCavea_47 (DC1), RogerDodger_51 (DC1), Salvador_47 (DC1), Savbucketdawg_48 (DC1), SmokingBunny_48 (DC1), Togo_47 (DC1), Twister6_50 (DC1), Valary_50 (DC1), VanDeWege_51 (DC1),

Start 20:

- Found in 27 of 32 (84.4%) of genes in pham
- Manual Annotations of this start: 1 of 29
- Called 7.4% of time when present
- Phage (with cluster) where this start called: Gezellig_50 (DC1), Wizard_47 (DC1),

Summary by clusters:

There are 4 clusters represented in this pham: singleton, DY, CV, DC1,

Info for manual annotations of cluster CV:

- Start number 6 was manually annotated 1 time for cluster CV.
- Start number 14 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster DC1:

- Start number 14 was manually annotated 24 times for cluster DC1.
- Start number 20 was manually annotated 1 time for cluster DC1.

Info for manual annotations of cluster DY:

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

Gene Information:

Gene: Arri_51 Start: 39948, Stop: 39535, Start Num: 14

Candidate Starts for Arri_51:

(2, 40053), (3, 40047), (4, 40023), (9, 39984), (Start: 14 @39948 has 25 MA's), (Start: 20 @39906 has 1 MA's), (25, 39840), (27, 39819), (34, 39759), (36, 39741),

Gene: Bakery_54 Start: 41089, Stop: 40676, Start Num: 14

Candidate Starts for Bakery_54:

(2, 41194), (3, 41188), (4, 41164), (9, 41125), (Start: 14 @41089 has 25 MA's), (Start: 20 @41047 has 1 MA's), (25, 40981), (27, 40960), (34, 40900), (36, 40882),

Gene: Barb_50 Start: 40067, Stop: 39654, Start Num: 14

Candidate Starts for Barb_50:

(2, 40172), (3, 40166), (4, 40142), (9, 40103), (Start: 14 @40067 has 25 MA's), (Start: 20 @40025 has 1 MA's), (25, 39959), (27, 39938), (30, 39896), (36, 39860), (38, 39752),

Gene: Barebow_19 Start: 15697, Stop: 15296, Start Num: 10

Candidate Starts for Barebow_19:

(Start: 10 @15697 has 1 MA's), (12, 15691), (15, 15664), (17, 15649), (29, 15514), (33, 15490), (37, 15403), (39, 15319),

Gene: ClamChowder_50 Start: 40067, Stop: 39654, Start Num: 14

Candidate Starts for ClamChowder_50:

(2, 40172), (3, 40166), (4, 40142), (9, 40103), (Start: 14 @40067 has 25 MA's), (Start: 20 @40025 has 1 MA's), (25, 39959), (27, 39938), (30, 39896), (36, 39860), (38, 39752),

Gene: CoveyB_51 Start: 39766, Stop: 39353, Start Num: 14

Candidate Starts for CoveyB_51:

(9, 39802), (Start: 14 @39766 has 25 MA's), (Start: 20 @39724 has 1 MA's), (25, 39658), (27, 39637), (30, 39595), (36, 39559), (38, 39451),

Gene: Danyall_50 Start: 39768, Stop: 39355, Start Num: 14

Candidate Starts for Danyall_50:

(2, 39873), (3, 39867), (4, 39843), (9, 39804), (Start: 14 @39768 has 25 MA's), (Start: 20 @39726 has 1 MA's), (25, 39660), (27, 39639), (30, 39597), (36, 39561),

Gene: Evamon_47 Start: 39787, Stop: 39374, Start Num: 14

Candidate Starts for Evamon_47:

(2, 39892), (3, 39886), (4, 39862), (9, 39823), (Start: 14 @39787 has 25 MA's), (Start: 20 @39745 has 1 MA's), (25, 39679), (27, 39658), (30, 39616), (36, 39580), (38, 39472),

Gene: Fugax_51 Start: 40059, Stop: 39646, Start Num: 14

Candidate Starts for Fugax_51:

(2, 40164), (3, 40158), (4, 40134), (9, 40095), (Start: 14 @40059 has 25 MA's), (Start: 20 @40017 has 1 MA's), (25, 39951), (27, 39930), (30, 39888), (36, 39852), (38, 39744),

Gene: Gezellig_50 Start: 39877, Stop: 39506, Start Num: 20

Candidate Starts for Gezellig_50:

(9, 39955), (Start: 14 @39919 has 25 MA's), (Start: 20 @39877 has 1 MA's), (25, 39811), (27, 39790), (30, 39748), (36, 39712), (38, 39604),

Gene: Halo3_49 Start: 40504, Stop: 40091, Start Num: 14

Candidate Starts for Halo3_49:

(9, 40540), (Start: 14 @40504 has 25 MA's), (Start: 20 @40462 has 1 MA's), (25, 40396), (27, 40375), (30, 40333), (36, 40297), (38, 40189),

Gene: Heinz_33 Start: 25504, Stop: 25082, Start Num: 7

Candidate Starts for Heinz_33:

(Start: 7 @25504 has 1 MA's), (13, 25480), (19, 25432), (21, 25417), (23, 25408), (28, 25330), (33, 25303),

Gene: Hibiscus_33 Start: 25453, Stop: 25031, Start Num: 7

Candidate Starts for Hibiscus_33:

(Start: 7 @25453 has 1 MA's), (13, 25429), (19, 25381), (21, 25366), (23, 25357), (28, 25279), (33, 25252),

Gene: Jambalaya_48 Start: 39566, Stop: 39153, Start Num: 14

Candidate Starts for Jambalaya_48:

(9, 39602), (Start: 14 @39566 has 25 MA's), (Start: 20 @39524 has 1 MA's), (25, 39458), (27, 39437), (30, 39395), (36, 39359), (38, 39251),

Gene: KimmyK_49 Start: 40501, Stop: 40088, Start Num: 14

Candidate Starts for KimmyK_49:

(2, 40606), (3, 40600), (4, 40576), (9, 40537), (Start: 14 @40501 has 25 MA's), (Start: 20 @40459 has 1 MA's), (25, 40393), (27, 40372), (30, 40330), (36, 40294), (38, 40186),

Gene: Mutzi_48 Start: 40895, Stop: 40482, Start Num: 14

Candidate Starts for Mutzi_48:

(9, 40931), (Start: 14 @40895 has 25 MA's), (Start: 20 @40853 has 1 MA's), (25, 40787), (27, 40766), (30, 40724), (36, 40688), (38, 40580),

Gene: Nubi_48 Start: 39892, Stop: 39479, Start Num: 14

Candidate Starts for Nubi_48:

(2, 39997), (3, 39991), (4, 39967), (9, 39928), (Start: 14 @39892 has 25 MA's), (Start: 20 @39850 has 1 MA's), (25, 39784), (27, 39763), (30, 39721), (36, 39685), (38, 39577),

Gene: Phlop_47 Start: 39973, Stop: 39560, Start Num: 14

Candidate Starts for Phlop_47:

(2, 40078), (3, 40072), (4, 40048), (9, 40009), (Start: 14 @39973 has 25 MA's), (Start: 20 @39931 has 1 MA's), (25, 39865), (27, 39844), (30, 39802), (36, 39766), (38, 39658),

Gene: PhrostedPhlake_44 Start: 32850, Stop: 32413, Start Num: 6

Candidate Starts for PhrostedPhlake_44:

(5, 32859), (Start: 6 @32850 has 1 MA's), (8, 32838), (9, 32835), (11, 32832), (16, 32796), (18, 32772), (24, 32724), (26, 32697), (32, 32646), (40, 32457),

Gene: PinkCoffee_50 Start: 40076, Stop: 39663, Start Num: 14

Candidate Starts for PinkCoffee_50:

(2, 40181), (3, 40175), (4, 40151), (9, 40112), (Start: 14 @40076 has 25 MA's), (Start: 20 @40034 has 1 MA's), (25, 39968), (27, 39947), (30, 39905), (36, 39869), (38, 39761),

Gene: Pipp_38 Start: 31416, Stop: 30997, Start Num: 14

Candidate Starts for Pipp_38:

(1, 31644), (Start: 14 @31416 has 25 MA's), (22, 31350), (27, 31287), (31, 31239), (35, 31215),

Gene: Portcullis_50 Start: 39579, Stop: 39166, Start Num: 14

Candidate Starts for Portcullis_50:

(2, 39684), (3, 39678), (4, 39654), (9, 39615), (Start: 14 @39579 has 25 MA's), (Start: 20 @39537 has 1 MA's), (25, 39471), (27, 39450), (30, 39408), (36, 39372),

Gene: PullumCavea_47 Start: 39973, Stop: 39560, Start Num: 14

Candidate Starts for PullumCavea_47:

(2, 40078), (3, 40072), (4, 40048), (9, 40009), (Start: 14 @39973 has 25 MA's), (Start: 20 @39931 has 1 MA's), (25, 39865), (27, 39844), (30, 39802), (36, 39766), (38, 39658),

Gene: RogerDodger_51 Start: 40116, Stop: 39703, Start Num: 14

Candidate Starts for RogerDodger_51:

(9, 40152), (Start: 14 @40116 has 25 MA's), (Start: 20 @40074 has 1 MA's), (25, 40008), (27, 39987), (30, 39945), (36, 39909),

Gene: Salvador_47 Start: 39785, Stop: 39372, Start Num: 14

Candidate Starts for Salvador_47:

(2, 39890), (3, 39884), (4, 39860), (9, 39821), (Start: 14 @39785 has 25 MA's), (Start: 20 @39743 has 1 MA's), (25, 39677), (27, 39656), (30, 39614), (36, 39578), (38, 39470),

Gene: Savbucketdawg_48 Start: 39566, Stop: 39153, Start Num: 14

Candidate Starts for Savbucketdawg_48:

(9, 39602), (Start: 14 @39566 has 25 MA's), (Start: 20 @39524 has 1 MA's), (25, 39458), (27, 39437), (30, 39395), (36, 39359), (38, 39251),

Gene: SmokingBunny_48 Start: 39878, Stop: 39465, Start Num: 14

Candidate Starts for SmokingBunny_48:

(2, 39983), (3, 39977), (4, 39953), (9, 39914), (Start: 14 @39878 has 25 MA's), (Start: 20 @39836 has 1 MA's), (25, 39770), (27, 39749), (30, 39707), (36, 39671), (38, 39563),

Gene: Togo_47 Start: 39878, Stop: 39465, Start Num: 14

Candidate Starts for Togo_47:

(2, 39983), (3, 39977), (4, 39953), (9, 39914), (Start: 14 @39878 has 25 MA's), (Start: 20 @39836 has 1 MA's), (25, 39770), (27, 39749), (30, 39707), (36, 39671), (38, 39563),

Gene: Twister6_50 Start: 39679, Stop: 39266, Start Num: 14

Candidate Starts for Twister6_50:

(2, 39784), (3, 39778), (4, 39754), (9, 39715), (Start: 14 @39679 has 25 MA's), (Start: 20 @39637 has 1 MA's), (25, 39571), (27, 39550), (30, 39508), (36, 39472),

Gene: Valary_50 Start: 40721, Stop: 40308, Start Num: 14

Candidate Starts for Valary_50:

(9, 40757), (Start: 14 @40721 has 25 MA's), (Start: 20 @40679 has 1 MA's), (25, 40613), (27, 40592), (30, 40550), (36, 40514), (38, 40406),

Gene: VanDeWege_51 Start: 40013, Stop: 39600, Start Num: 14

Candidate Starts for VanDeWege_51:

(9, 40049), (Start: 14 @40013 has 25 MA's), (Start: 20 @39971 has 1 MA's), (25, 39905), (27, 39884), (30, 39842), (36, 39806), (38, 39698),

Gene: Wizard_47 Start: 39877, Stop: 39506, Start Num: 20

Candidate Starts for Wizard_47:

(9, 39955), (Start: 14 @39919 has 25 MA's), (Start: 20 @39877 has 1 MA's), (25, 39811), (27, 39790),
(30, 39748), (36, 39712), (38, 39604),