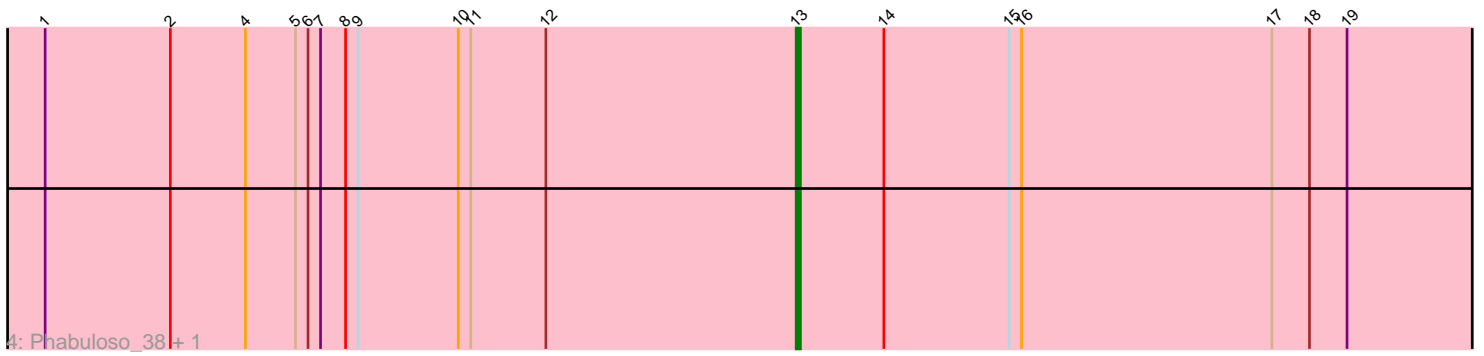
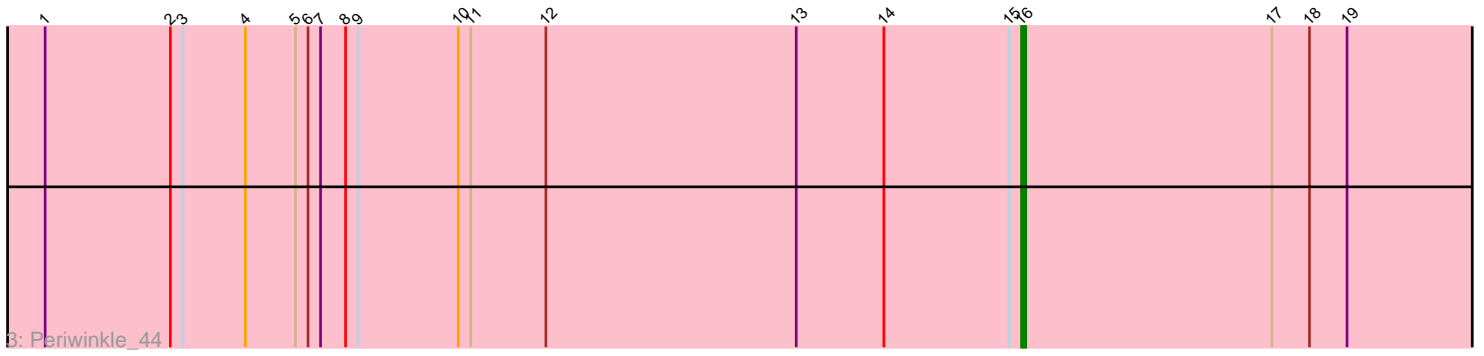
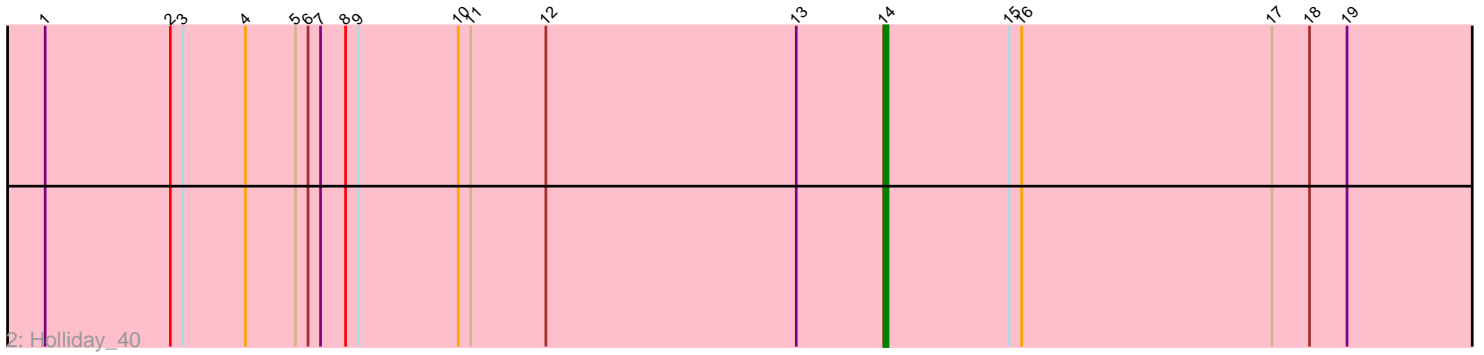
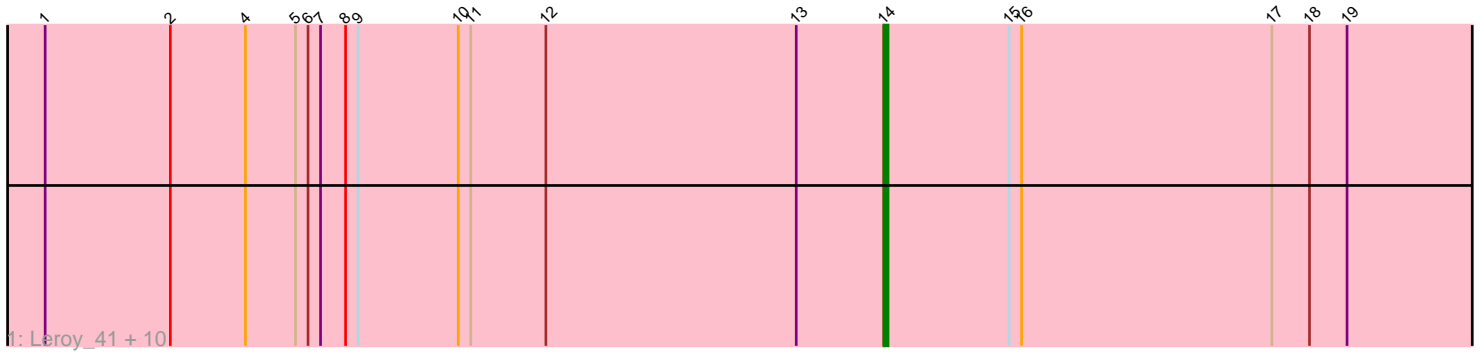


Pham 162274



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 162274 Report

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

Pham number 162274 has 15 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Leroy_41, Kenna_40, Horus_41, ODay_44, Getalong_42, Lutum_41, CheeseTouch_39, BENtherdunthat_40, Asapag_41, Frickyeah_41, Apricot_40
- Track 2 : Holliday_40
- Track 3 : Periwinkle_44
- Track 4 : Phabuloso_38, BearBQ_40

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 11 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Apricot_40, Asapag_41, BENtherdunthat_40, CheeseTouch_39, Frickyeah_41, Getalong_42, Holliday_40, Horus_41, Kenna_40, Leroy_41, Lutum_41, ODay_44,

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

- BearBQ_40, Periwinkle_44, Phabuloso_38,

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

-

Summary by start number:

Start 13:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 2 of 14
- Called 13.3% of time when present
- Phage (with cluster) where this start called: BearBQ_40 (DN), Phabuloso_38 (DN1),

Start 14:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 11 of 14
- Called 80.0% of time when present

- Phage (with cluster) where this start called: Apricot_40 (DN3), Asapag_41 (DN1), BENtherdunthat_40 (DN1), CheeseTouch_39 (DN1), Frickyeah_41 (DN1), Getalong_42 (DN1), Holliday_40 (DN1), Horus_41 (DN1), Kenna_40 (DN1), Leroy_41 (DN1), Lutum_41 (DN1), ODay_44 (DN),

Start 16:

- Found in 15 of 15 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Periwinkle_44 (DN1),

Summary by clusters:

There are 3 clusters represented in this pham: DN, DN1, DN3,

Info for manual annotations of cluster DN:

- Start number 13 was manually annotated 1 time for cluster DN.
- Start number 14 was manually annotated 1 time for cluster DN.

Info for manual annotations of cluster DN1:

- Start number 13 was manually annotated 1 time for cluster DN1.
- Start number 14 was manually annotated 9 times for cluster DN1.
- Start number 16 was manually annotated 1 time for cluster DN1.

Info for manual annotations of cluster DN3:

- Start number 14 was manually annotated 1 time for cluster DN3.

Gene Information:

Gene: Apricot_40 Start: 29360, Stop: 29169, Start Num: 14

Candidate Starts for Apricot_40:

(1, 29561), (2, 29531), (4, 29513), (5, 29501), (6, 29498), (7, 29495), (8, 29489), (9, 29486), (10, 29462), (11, 29459), (12, 29441), (Start: 13 @29381 has 2 MA's), (Start: 14 @29360 has 11 MA's), (15, 29330), (Start: 16 @29327 has 1 MA's), (17, 29267), (18, 29258), (19, 29249),

Gene: Asapag_41 Start: 30952, Stop: 30761, Start Num: 14

Candidate Starts for Asapag_41:

(1, 31153), (2, 31123), (4, 31105), (5, 31093), (6, 31090), (7, 31087), (8, 31081), (9, 31078), (10, 31054), (11, 31051), (12, 31033), (Start: 13 @30973 has 2 MA's), (Start: 14 @30952 has 11 MA's), (15, 30922), (Start: 16 @30919 has 1 MA's), (17, 30859), (18, 30850), (19, 30841),

Gene: BENtherdunthat_40 Start: 29163, Stop: 28972, Start Num: 14

Candidate Starts for BENtherdunthat_40:

(1, 29364), (2, 29334), (4, 29316), (5, 29304), (6, 29301), (7, 29298), (8, 29292), (9, 29289), (10, 29265), (11, 29262), (12, 29244), (Start: 13 @29184 has 2 MA's), (Start: 14 @29163 has 11 MA's), (15, 29133), (Start: 16 @29130 has 1 MA's), (17, 29070), (18, 29061), (19, 29052),

Gene: BearBQ_40 Start: 30608, Stop: 30396, Start Num: 13

Candidate Starts for BearBQ_40:

(1, 30788), (2, 30758), (4, 30740), (5, 30728), (6, 30725), (7, 30722), (8, 30716), (9, 30713), (10, 30689), (11, 30686), (12, 30668), (Start: 13 @30608 has 2 MA's), (Start: 14 @30587 has 11 MA's),

(15, 30557), (Start: 16 @30554 has 1 MA's), (17, 30494), (18, 30485), (19, 30476),

Gene: CheeseTouch_39 Start: 27514, Stop: 27323, Start Num: 14

Candidate Starts for CheeseTouch_39:

(1, 27715), (2, 27685), (4, 27667), (5, 27655), (6, 27652), (7, 27649), (8, 27643), (9, 27640), (10, 27616), (11, 27613), (12, 27595), (Start: 13 @27535 has 2 MA's), (Start: 14 @27514 has 11 MA's), (15, 27484), (Start: 16 @27481 has 1 MA's), (17, 27421), (18, 27412), (19, 27403),

Gene: Frickyeah_41 Start: 29053, Stop: 28862, Start Num: 14

Candidate Starts for Frickyeah_41:

(1, 29254), (2, 29224), (4, 29206), (5, 29194), (6, 29191), (7, 29188), (8, 29182), (9, 29179), (10, 29155), (11, 29152), (12, 29134), (Start: 13 @29074 has 2 MA's), (Start: 14 @29053 has 11 MA's), (15, 29023), (Start: 16 @29020 has 1 MA's), (17, 28960), (18, 28951), (19, 28942),

Gene: Getalong_42 Start: 31773, Stop: 31582, Start Num: 14

Candidate Starts for Getalong_42:

(1, 31974), (2, 31944), (4, 31926), (5, 31914), (6, 31911), (7, 31908), (8, 31902), (9, 31899), (10, 31875), (11, 31872), (12, 31854), (Start: 13 @31794 has 2 MA's), (Start: 14 @31773 has 11 MA's), (15, 31743), (Start: 16 @31740 has 1 MA's), (17, 31680), (18, 31671), (19, 31662),

Gene: Holliday_40 Start: 29628, Stop: 29437, Start Num: 14

Candidate Starts for Holliday_40:

(1, 29829), (2, 29799), (3, 29796), (4, 29781), (5, 29769), (6, 29766), (7, 29763), (8, 29757), (9, 29754), (10, 29730), (11, 29727), (12, 29709), (Start: 13 @29649 has 2 MA's), (Start: 14 @29628 has 11 MA's), (15, 29598), (Start: 16 @29595 has 1 MA's), (17, 29535), (18, 29526), (19, 29517),

Gene: Horus_41 Start: 30974, Stop: 30783, Start Num: 14

Candidate Starts for Horus_41:

(1, 31175), (2, 31145), (4, 31127), (5, 31115), (6, 31112), (7, 31109), (8, 31103), (9, 31100), (10, 31076), (11, 31073), (12, 31055), (Start: 13 @30995 has 2 MA's), (Start: 14 @30974 has 11 MA's), (15, 30944), (Start: 16 @30941 has 1 MA's), (17, 30881), (18, 30872), (19, 30863),

Gene: Kenna_40 Start: 29964, Stop: 29773, Start Num: 14

Candidate Starts for Kenna_40:

(1, 30165), (2, 30135), (4, 30117), (5, 30105), (6, 30102), (7, 30099), (8, 30093), (9, 30090), (10, 30066), (11, 30063), (12, 30045), (Start: 13 @29985 has 2 MA's), (Start: 14 @29964 has 11 MA's), (15, 29934), (Start: 16 @29931 has 1 MA's), (17, 29871), (18, 29862), (19, 29853),

Gene: Leroy_41 Start: 30975, Stop: 30784, Start Num: 14

Candidate Starts for Leroy_41:

(1, 31176), (2, 31146), (4, 31128), (5, 31116), (6, 31113), (7, 31110), (8, 31104), (9, 31101), (10, 31077), (11, 31074), (12, 31056), (Start: 13 @30996 has 2 MA's), (Start: 14 @30975 has 11 MA's), (15, 30945), (Start: 16 @30942 has 1 MA's), (17, 30882), (18, 30873), (19, 30864),

Gene: Lutum_41 Start: 29964, Stop: 29773, Start Num: 14

Candidate Starts for Lutum_41:

(1, 30165), (2, 30135), (4, 30117), (5, 30105), (6, 30102), (7, 30099), (8, 30093), (9, 30090), (10, 30066), (11, 30063), (12, 30045), (Start: 13 @29985 has 2 MA's), (Start: 14 @29964 has 11 MA's), (15, 29934), (Start: 16 @29931 has 1 MA's), (17, 29871), (18, 29862), (19, 29853),

Gene: ODay_44 Start: 31438, Stop: 31247, Start Num: 14

Candidate Starts for ODay_44:

(1, 31639), (2, 31609), (4, 31591), (5, 31579), (6, 31576), (7, 31573), (8, 31567), (9, 31564), (10, 31540), (11, 31537), (12, 31519), (Start: 13 @31459 has 2 MA's), (Start: 14 @31438 has 11 MA's), (15, 31408), (Start: 16 @31405 has 1 MA's), (17, 31345), (18, 31336), (19, 31327),

Gene: Periwinkle_44 Start: 31386, Stop: 31228, Start Num: 16

Candidate Starts for Periwinkle_44:

(1, 31620), (2, 31590), (3, 31587), (4, 31572), (5, 31560), (6, 31557), (7, 31554), (8, 31548), (9, 31545), (10, 31521), (11, 31518), (12, 31500), (Start: 13 @31440 has 2 MA's), (Start: 14 @31419 has 11 MA's), (15, 31389), (Start: 16 @31386 has 1 MA's), (17, 31326), (18, 31317), (19, 31308),

Gene: Phabuloso_38 Start: 29697, Stop: 29485, Start Num: 13

Candidate Starts for Phabuloso_38:

(1, 29877), (2, 29847), (4, 29829), (5, 29817), (6, 29814), (7, 29811), (8, 29805), (9, 29802), (10, 29778), (11, 29775), (12, 29757), (Start: 13 @29697 has 2 MA's), (Start: 14 @29676 has 11 MA's), (15, 29646), (Start: 16 @29643 has 1 MA's), (17, 29583), (18, 29574), (19, 29565),