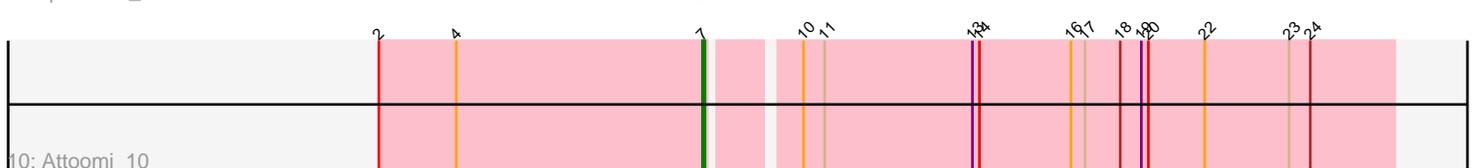
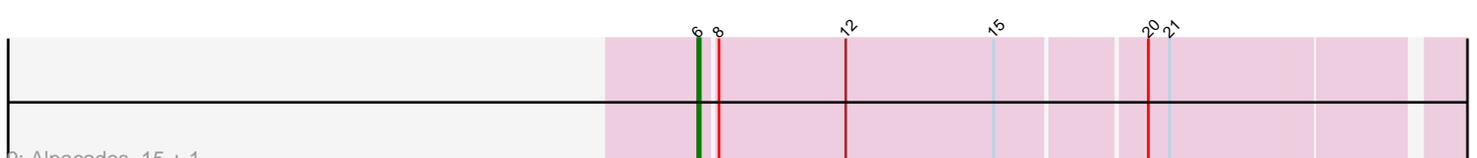
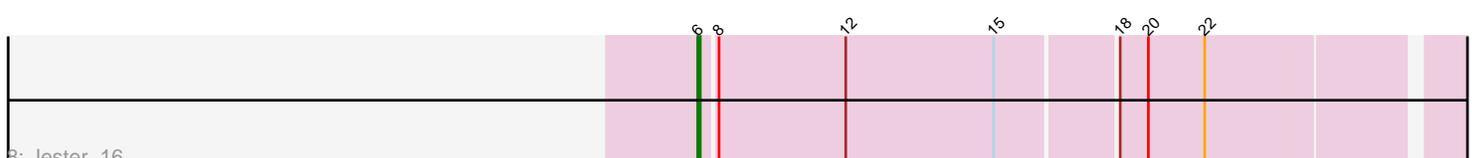
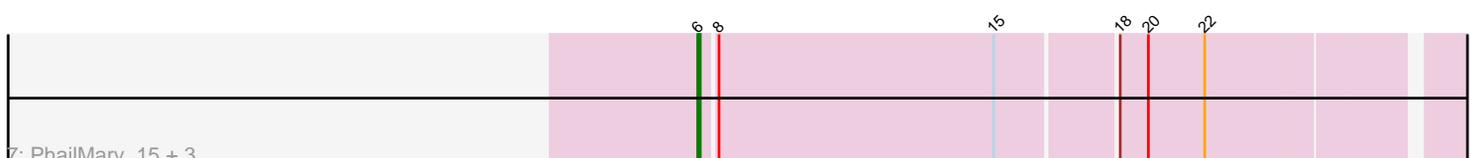
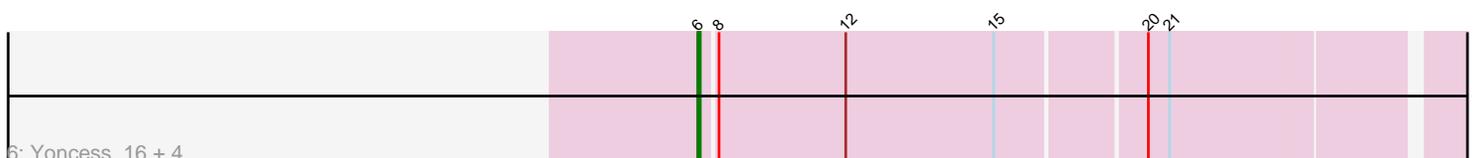
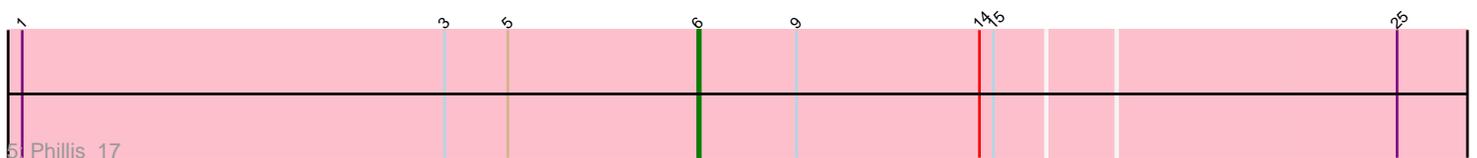
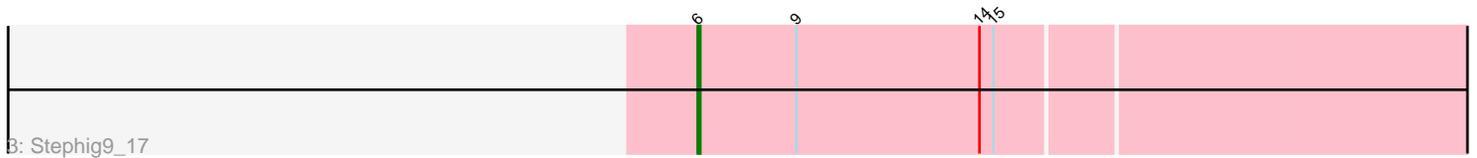
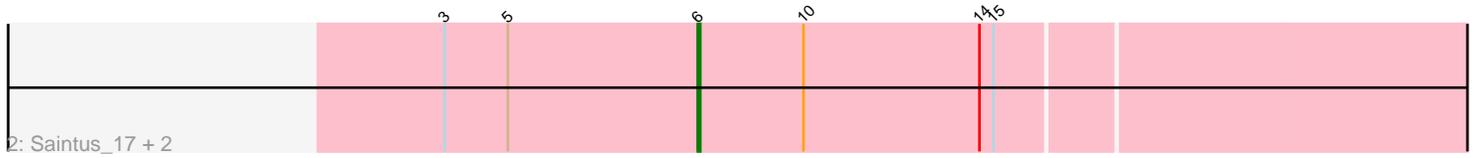
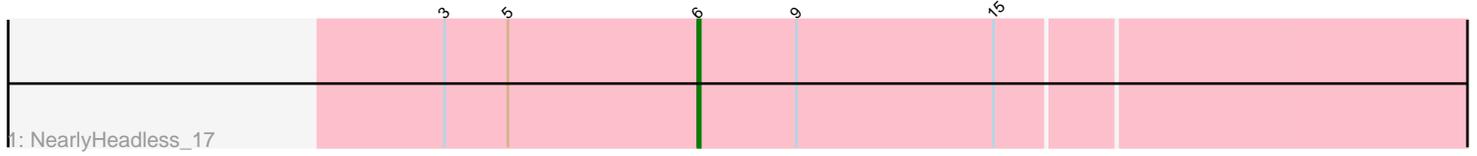


Pham 291476



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 291476 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291476 has 25 members, 1 are drafts.

Phages represented in each track:

- Track 1 : NearlyHeadless_17
- Track 2 : Saintus_17, Roary_17, Dixon_17
- Track 3 : Stephig9_17
- Track 4 : Groundhog_16, Caitlin_16, Expelliarmus_16, Astro_17, Smeadley_17, Danforth_16
- Track 5 : Phillis_17
- Track 6 : Yoncess_16, Bryce_16, BobbyDazzler_16, AngryOrchard_15, Takoda_16
- Track 7 : PhailMary_15, Krishelle_16, AppleCloud_14, Hiro_16
- Track 8 : Jester_16
- Track 9 : Alpacados_15, Harlequin_16
- Track 10 : Attoomi_10

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

The start number called the most often in the published annotations is 6, it was called in 23 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alpacados_15, AngryOrchard_15, AppleCloud_14, Astro_17, BobbyDazzler_16, Bryce_16, Caitlin_16, Danforth_16, Dixon_17, Expelliarmus_16, Groundhog_16, Harlequin_16, Hiro_16, Jester_16, Krishelle_16, NearlyHeadless_17, PhailMary_15, Phillis_17, Roary_17, Saintus_17, Smeadley_17, Stephig9_17, Takoda_16, Yoncess_16,

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

-

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

- Attoomi_10,

Summary by start number:

Start 6:

- Found in 24 of 25 (96.0%) of genes in pham

- Manual Annotations of this start: 23 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alpacados_15 (CA), AngryOrchard_15 (CA), AppleCloud_14 (CA), Astro_17 (A8), BobbyDazzler_16 (CA), Bryce_16 (CA), Caitlin_16 (A8), Danforth_16 (A8), Dixon_17 (A8), Expelliarmus_16 (A8), Groundhog_16 (A8), Harlequin_16 (CA), Hiro_16 (CA), Jester_16 (CA), Krishelle_16 (CA), NearlyHeadless_17 (A8), PhailMary_15 (CA), Phillis_17 (A8), Roary_17 (A8), Saintus_17 (A8), Smeadley_17 (A8), Stephig9_17 (A8), Takoda_16 (CA), Yoncess_16 (CA),

Start 7:

- Found in 1 of 25 (4.0%) of genes in pham
- Manual Annotations of this start: 1 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attoomi_10 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: A8, CA, singleton,

Info for manual annotations of cluster A8:

- Start number 6 was manually annotated 11 times for cluster A8.

Info for manual annotations of cluster CA:

- Start number 6 was manually annotated 12 times for cluster CA.

Gene Information:

Gene: Alpacados_15 Start: 9579, Stop: 9890, Start Num: 6

Candidate Starts for Alpacados_15:

(Start: 6 @9579 has 23 MA's), (8, 9585), (12, 9639), (15, 9702), (20, 9762), (21, 9771),

Gene: AngryOrchard_15 Start: 9562, Stop: 9873, Start Num: 6

Candidate Starts for AngryOrchard_15:

(Start: 6 @9562 has 23 MA's), (8, 9568), (12, 9622), (15, 9685), (20, 9745), (21, 9754),

Gene: AppleCloud_14 Start: 9302, Stop: 9613, Start Num: 6

Candidate Starts for AppleCloud_14:

(Start: 6 @9302 has 23 MA's), (8, 9308), (15, 9425), (18, 9473), (20, 9485), (22, 9509),

Gene: Astro_17 Start: 12253, Stop: 12621, Start Num: 6

Candidate Starts for Astro_17:

(1, 11965), (3, 12145), (5, 12172), (Start: 6 @12253 has 23 MA's), (9, 12295), (14, 12373), (15, 12379),

Gene: Attoomi_10 Start: 7279, Stop: 7563, Start Num: 7

Candidate Starts for Attoomi_10:

(2, 7141), (4, 7174), (Start: 7 @7279 has 1 MA's), (10, 7312), (11, 7321), (13, 7384), (14, 7387), (16, 7426), (17, 7432), (18, 7447), (19, 7456), (20, 7459), (22, 7483), (23, 7519), (24, 7528),

Gene: BobbyDazzler_16 Start: 9688, Stop: 9999, Start Num: 6

Candidate Starts for BobbyDazzler_16:

(Start: 6 @9688 has 23 MA's), (8, 9694), (12, 9748), (15, 9811), (20, 9871), (21, 9880),

Gene: Bryce_16 Start: 9617, Stop: 9928, Start Num: 6

Candidate Starts for Bryce_16:

(Start: 6 @9617 has 23 MA's), (8, 9623), (12, 9677), (15, 9740), (20, 9800), (21, 9809),

Gene: Caitlin_16 Start: 12250, Stop: 12618, Start Num: 6

Candidate Starts for Caitlin_16:

(1, 11962), (3, 12142), (5, 12169), (Start: 6 @12250 has 23 MA's), (9, 12292), (14, 12370), (15, 12376),

Gene: Danforth_16 Start: 12232, Stop: 12600, Start Num: 6

Candidate Starts for Danforth_16:

(1, 11944), (3, 12124), (5, 12151), (Start: 6 @12232 has 23 MA's), (9, 12274), (14, 12352), (15, 12358),

Gene: Dixon_17 Start: 12251, Stop: 12619, Start Num: 6

Candidate Starts for Dixon_17:

(3, 12143), (5, 12170), (Start: 6 @12251 has 23 MA's), (10, 12296), (14, 12371), (15, 12377),

Gene: Expelliarmus_16 Start: 12218, Stop: 12586, Start Num: 6

Candidate Starts for Expelliarmus_16:

(1, 11930), (3, 12110), (5, 12137), (Start: 6 @12218 has 23 MA's), (9, 12260), (14, 12338), (15, 12344),

Gene: Groundhog_16 Start: 12219, Stop: 12587, Start Num: 6

Candidate Starts for Groundhog_16:

(1, 11931), (3, 12111), (5, 12138), (Start: 6 @12219 has 23 MA's), (9, 12261), (14, 12339), (15, 12345),

Gene: Harlequin_16 Start: 9593, Stop: 9904, Start Num: 6

Candidate Starts for Harlequin_16:

(Start: 6 @9593 has 23 MA's), (8, 9599), (12, 9653), (15, 9716), (20, 9776), (21, 9785),

Gene: Hiro_16 Start: 9593, Stop: 9904, Start Num: 6

Candidate Starts for Hiro_16:

(Start: 6 @9593 has 23 MA's), (8, 9599), (15, 9716), (18, 9764), (20, 9776), (22, 9800),

Gene: Jester_16 Start: 9593, Stop: 9904, Start Num: 6

Candidate Starts for Jester_16:

(Start: 6 @9593 has 23 MA's), (8, 9599), (12, 9653), (15, 9716), (18, 9764), (20, 9776), (22, 9800),

Gene: Krishelle_16 Start: 9608, Stop: 9919, Start Num: 6

Candidate Starts for Krishelle_16:

(Start: 6 @9608 has 23 MA's), (8, 9614), (15, 9731), (18, 9779), (20, 9791), (22, 9815),

Gene: NearlyHeadless_17 Start: 12268, Stop: 12636, Start Num: 6

Candidate Starts for NearlyHeadless_17:

(3, 12160), (5, 12187), (Start: 6 @12268 has 23 MA's), (9, 12310), (15, 12394),

Gene: PhailMary_15 Start: 9659, Stop: 9970, Start Num: 6

Candidate Starts for PhailMary_15:

(Start: 6 @9659 has 23 MA's), (8, 9665), (15, 9782), (18, 9830), (20, 9842), (22, 9866),

Gene: Phillis_17 Start: 12226, Stop: 12594, Start Num: 6

Candidate Starts for Phillis_17:

(1, 11938), (3, 12118), (5, 12145), (Start: 6 @12226 has 23 MA's), (9, 12268), (14, 12346), (15, 12352), (25, 12517),

Gene: Roary_17 Start: 12217, Stop: 12585, Start Num: 6

Candidate Starts for Roary_17:

(3, 12109), (5, 12136), (Start: 6 @12217 has 23 MA's), (10, 12262), (14, 12337), (15, 12343),

Gene: Saintus_17 Start: 12232, Stop: 12600, Start Num: 6

Candidate Starts for Saintus_17:

(3, 12124), (5, 12151), (Start: 6 @12232 has 23 MA's), (10, 12277), (14, 12352), (15, 12358),

Gene: Smeadley_17 Start: 12250, Stop: 12618, Start Num: 6

Candidate Starts for Smeadley_17:

(1, 11962), (3, 12142), (5, 12169), (Start: 6 @12250 has 23 MA's), (9, 12292), (14, 12370), (15, 12376),

Gene: Stephig9_17 Start: 12231, Stop: 12599, Start Num: 6

Candidate Starts for Stephig9_17:

(Start: 6 @12231 has 23 MA's), (9, 12273), (14, 12351), (15, 12357),

Gene: Takoda_16 Start: 9609, Stop: 9920, Start Num: 6

Candidate Starts for Takoda_16:

(Start: 6 @9609 has 23 MA's), (8, 9615), (12, 9669), (15, 9732), (20, 9792), (21, 9801),

Gene: Yoncess_16 Start: 9617, Stop: 9928, Start Num: 6

Candidate Starts for Yoncess_16:

(Start: 6 @9617 has 23 MA's), (8, 9623), (12, 9677), (15, 9740), (20, 9800), (21, 9809),