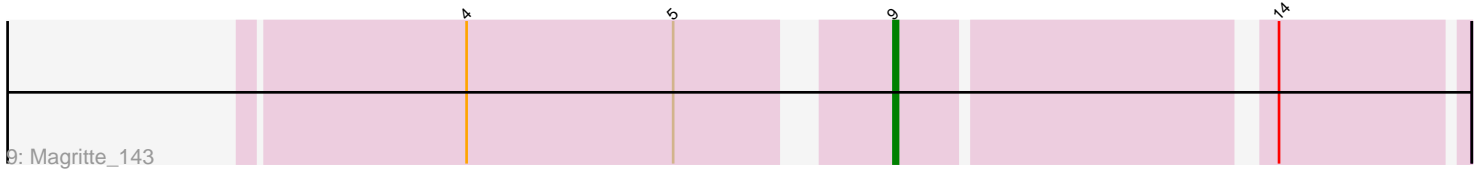
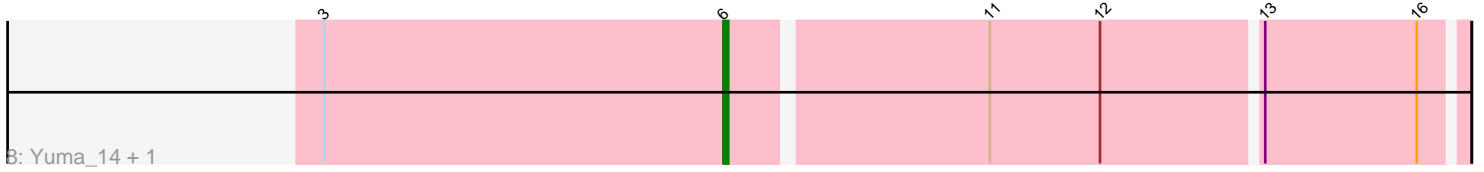
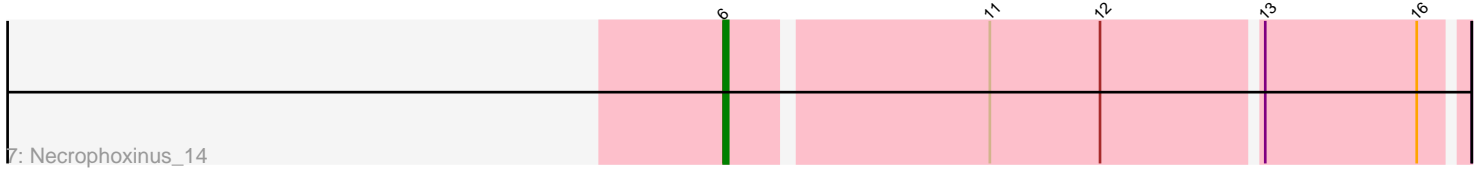
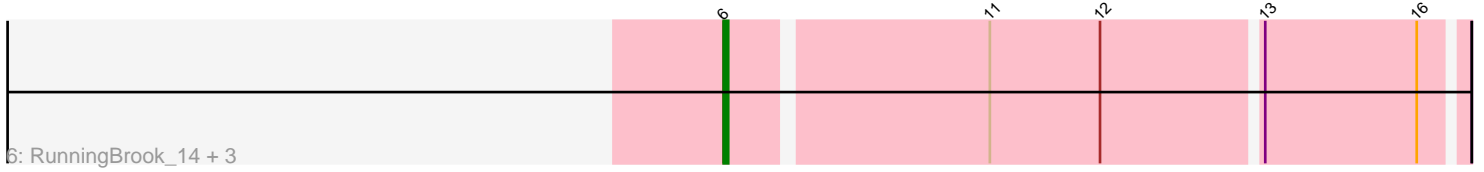
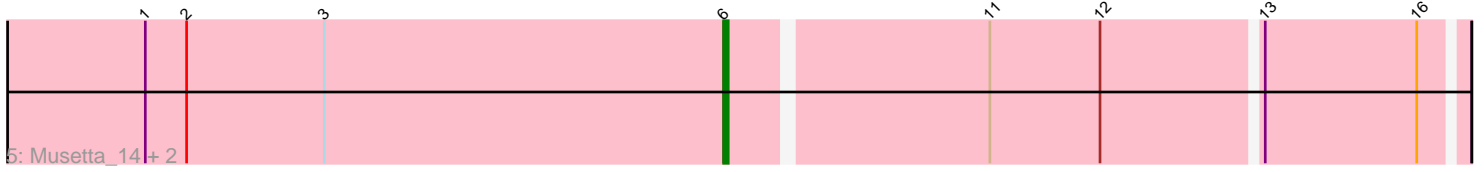
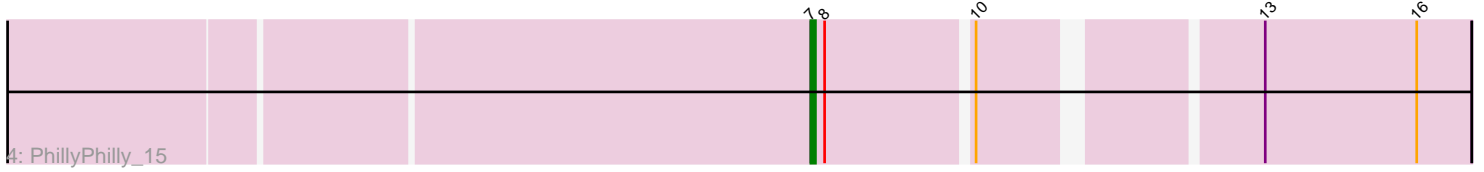
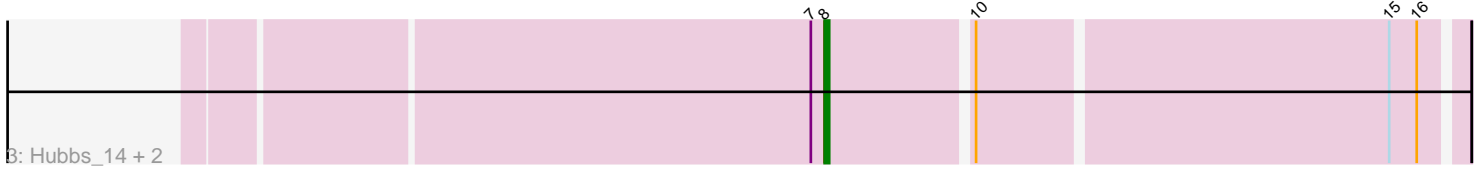
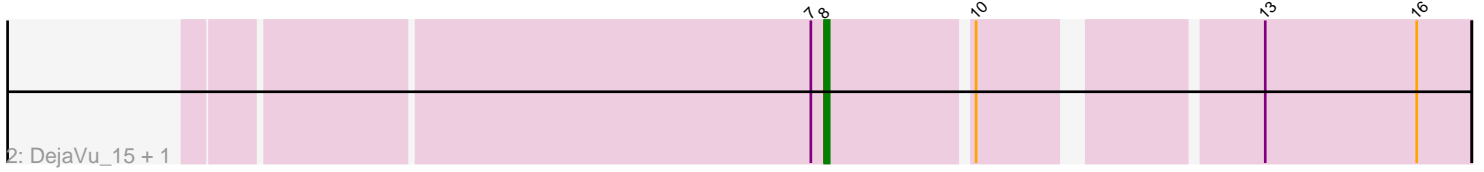
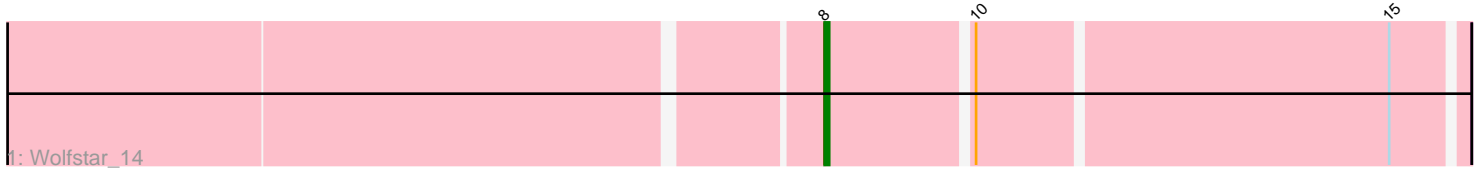


Pham 194370



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 194370 Report

This analysis was run 11/02/24 on database version 579.

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 194370 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Wolfstar_14
- Track 2 : DejaVu_15, Pavlo_13
- Track 3 : Hubbs_14, Lupine_13, Roman_14
- Track 4 : PhillyPhilly_15
- Track 5 : Musetta_14, StevieWelch_14, Fork_11
- Track 6 : RunningBrook_14, Erenyeager_11, DustyDino_14, Lyell_14
- Track 7 : Necrophoxinus_14
- Track 8 : Yuma_14, Welcome_14
- Track 9 : Magritte_143

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 8 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- DustyDino_14, Erenyeager_11, Fork_11, Lyell_14, Musetta_14, Necrophoxinus_14, RunningBrook_14, StevieWelch_14, Welcome_14, Yuma_14,

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

-

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

- DejaVu_15, Hubbs_14, Lupine_13, Magritte_143, Pavlo_13, PhillyPhilly_15, Roman_14, Wolfstar_14,

Summary by start number:

Start 6:

- Found in 10 of 18 (55.6%) 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: DustyDino_14 (ED2), Erenyeager_11 (ED2), Fork_11 (ED2), Lyell_14 (ED2), Musetta_14 (ED2), Necrophoxinus_14 (ED2), RunningBrook_14 (ED2), StevieWelch_14 (ED2), Welcome_14 (ED2), Yuma_14 (ED2),

Start 7:

- Found in 6 of 18 (33.3%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 16.7% of time when present
- Phage (with cluster) where this start called: PhillyPhilly_15 (ED1),

Start 8:

- Found in 7 of 18 (38.9%) of genes in pham
- Manual Annotations of this start: 6 of 16
- Called 85.7% of time when present
- Phage (with cluster) where this start called: DejaVu_15 (ED1), Hubbs_14 (ED1), Lupine_13 (ED1), Pavlo_13 (ED1), Roman_14 (ED1), Wolfstar_14 (ED),

Start 9:

- 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: Magritte_143 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: ED2, ED, singleton, ED1,

Info for manual annotations of cluster ED:

- Start number 8 was manually annotated 1 time for cluster ED.

Info for manual annotations of cluster ED1:

- Start number 7 was manually annotated 1 time for cluster ED1.
- Start number 8 was manually annotated 5 times for cluster ED1.

Info for manual annotations of cluster ED2:

- Start number 6 was manually annotated 8 times for cluster ED2.

Gene Information:

Gene: DejaVu_15 Start: 4738, Stop: 4866, Start Num: 8

Candidate Starts for DejaVu_15:

(Start: 7 @4735 has 1 MA's), (Start: 8 @4738 has 6 MA's), (10, 4768), (13, 4822), (16, 4855),

Gene: DustyDino_14 Start: 5076, Stop: 5228, Start Num: 6

Candidate Starts for DustyDino_14:

(Start: 6 @5076 has 8 MA's), (11, 5130), (12, 5154), (13, 5187), (16, 5220),

Gene: Erenyeager_11 Start: 4447, Stop: 4599, Start Num: 6

Candidate Starts for Erenyeager_11:

(Start: 6 @4447 has 8 MA's), (11, 4501), (12, 4525), (13, 4558), (16, 4591),

Gene: Fork_11 Start: 4329, Stop: 4481, Start Num: 6

Candidate Starts for Fork_11:

(1, 4203), (2, 4212), (3, 4242), (Start: 6 @4329 has 8 MA's), (11, 4383), (12, 4407), (13, 4440), (16, 4473),

Gene: Hubbs_14 Start: 4922, Stop: 5053, Start Num: 8

Candidate Starts for Hubbs_14:

(Start: 7 @4919 has 1 MA's), (Start: 8 @4922 has 6 MA's), (10, 4952), (15, 5039), (16, 5045),

Gene: Lupine_13 Start: 4717, Stop: 4848, Start Num: 8

Candidate Starts for Lupine_13:

(Start: 7 @4714 has 1 MA's), (Start: 8 @4717 has 6 MA's), (10, 4747), (15, 4834), (16, 4840),

Gene: Lyell_14 Start: 4791, Stop: 4943, Start Num: 6

Candidate Starts for Lyell_14:

(Start: 6 @4791 has 8 MA's), (11, 4845), (12, 4869), (13, 4902), (16, 4935),

Gene: Magritte_143 Start: 88216, Stop: 88329, Start Num: 9

Candidate Starts for Magritte_143:

(4, 88132), (5, 88177), (Start: 9 @88216 has 1 MA's), (14, 88291),

Gene: Musetta_14 Start: 5039, Stop: 5191, Start Num: 6

Candidate Starts for Musetta_14:

(1, 4913), (2, 4922), (3, 4952), (Start: 6 @5039 has 8 MA's), (11, 5093), (12, 5117), (13, 5150), (16, 5183),

Gene: Necrophoxinus_14 Start: 5155, Stop: 5307, Start Num: 6

Candidate Starts for Necrophoxinus_14:

(Start: 6 @5155 has 8 MA's), (11, 5209), (12, 5233), (13, 5266), (16, 5299),

Gene: Pavlo_13 Start: 4992, Stop: 5120, Start Num: 8

Candidate Starts for Pavlo_13:

(Start: 7 @4989 has 1 MA's), (Start: 8 @4992 has 6 MA's), (10, 5022), (13, 5076), (16, 5109),

Gene: PhillyPhilly_15 Start: 5100, Stop: 5231, Start Num: 7

Candidate Starts for PhillyPhilly_15:

(Start: 7 @5100 has 1 MA's), (Start: 8 @5103 has 6 MA's), (10, 5133), (13, 5187), (16, 5220),

Gene: Roman_14 Start: 4874, Stop: 5005, Start Num: 8

Candidate Starts for Roman_14:

(Start: 7 @4871 has 1 MA's), (Start: 8 @4874 has 6 MA's), (10, 4904), (15, 4991), (16, 4997),

Gene: RunningBrook_14 Start: 5076, Stop: 5228, Start Num: 6

Candidate Starts for RunningBrook_14:

(Start: 6 @5076 has 8 MA's), (11, 5130), (12, 5154), (13, 5187), (16, 5220),

Gene: StevieWelch_14 Start: 4956, Stop: 5108, Start Num: 6

Candidate Starts for StevieWelch_14:

(1, 4830), (2, 4839), (3, 4869), (Start: 6 @4956 has 8 MA's), (11, 5010), (12, 5034), (13, 5067), (16, 5100),

Gene: Welcome_14 Start: 5035, Stop: 5187, Start Num: 6

Candidate Starts for Welcome_14:

(3, 4948), (Start: 6 @5035 has 8 MA's), (11, 5089), (12, 5113), (13, 5146), (16, 5179),

Gene: Wolfstar_14 Start: 5290, Stop: 5421, Start Num: 8

Candidate Starts for Wolfstar_14:

(Start: 8 @5290 has 6 MA's), (10, 5320), (15, 5407),

Gene: Yuma_14 Start: 4938, Stop: 5090, Start Num: 6

Candidate Starts for Yuma_14:

(3, 4851), (Start: 6 @4938 has 8 MA's), (11, 4992), (12, 5016), (13, 5049), (16, 5082),